

WHOLE EARTH CATALOG

access to tools



Fall 1968

\$5

WHOLE EARTH CATALOG 1968

Understanding Whole Systems

Buckminster Fuller
Cosmic View
Full Earth
Earth Photographs
The World From Above
Surface Anatomy
Geology Illustrated
Sensitive Chaos
A Year From Monday

General Systems Yearbook
Synthesis of Form
On Growth and Form
Tantra Art
Psychological Reflections
The Human Use of Human Beings
The Ghost in the Machine
The Year 2000
The Futurist

Shelter and Land Use

The Dymaxion World of Buckminster Fuller
Space Structures
Tensile Structures, Volume One
Dome Cookbook
Good News
Architectural Design
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Alaskan Mill

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The Indian Tipi
Tipis
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Thomas Register of American Manufacturers
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Jensen Tools
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Direct Use of the Sun's Energy
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A Sculptor's Manual
Creative Glass Blowing
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American Cinematographer Manual
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The Book of Survival
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The Black Box
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Sense Relaxation
Zen Rock, Zen Boxes

Meditation Cushions and Mats
Self Hypnotism
Psycho-Cybernetics
A Yaqui Way of Knowledge
Fundamentals of Yoga
The Art of Creation
The I Ching

WHOLE EARTH CATALOG 1968

PURPOSE

We are as gods and might as well get used to it. So far, remotely done power and glory—as via government, big business, formal education, church—has succeeded to the point where gross obscure actual gains. In response to this dilemma and to these gains a realm of intimate, personal power is developing—power of the individual to conduct his own education, find his own inspiration, shape his own environment, and share his adventure with whoever is interested. Tools that aid this process are sought and promoted by the WHOLE EARTH CATALOG.

FUNCTION

The WHOLE EARTH CATALOG functions as an evaluation and access device. With it, the user should know better what is worth getting and where and how to do the getting.

An item is listed in the CATALOG if it is deemed:

- 1) Useful as a tool,
- 2) Relevant to independent education,
- 3) High quality or low cost,
- 4) Not already common knowledge,
- 5) Easily available by mail.

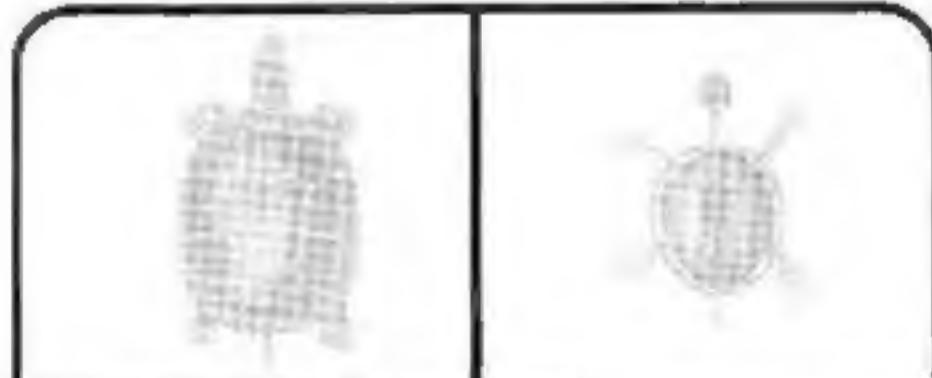
This information is continually revised according to the experience and suggestions of CATALOG users and staff.

USING THE 1968 CATALOG

WARNING: Using the access information from the 1968 Catalog will drive you nuts. Publishers begged us not to reprint the Catalog with their names anywhere near books they no longer carry. Please don't call a publisher and ask for a book because you saw it here.



This striped ball appears next to book covers and tools to help you estimate the item's size.



The LIVE TURTLE indicates that a book or tool, or its worthy replacement, lives on. Not surprisingly, access has changed over thirty years. See new access on page 62. If the 1968 item is no longer available, but we have found a successor we think is worth noting, the replacement is also found on p. 62.

The DEAD TURTLE means that the tool or book is essentially not available. Maybe an antiquarian bookstore or gizmo collector has it. Check a library. As far as we can tell, nothing of equal excellence has replaced it. If you know of an outstanding successor, tell us.

Buckminster Fuller

The insights of Buckminster Fuller are what initiated this catalog.

Of the four books reviewed here, *Nine Chains to the Moon* is his earliest and most openly metaphysical, *Ideas and Integrities* his most personal, *No More Secondhand God* the most recent. *World Design Science Decade* the most programmatic.

People who beef about Fuller mainly complain about his repetition - the same ideas again and again. It's embarrassing. It is embarrassing, also illuminating, because the same notions take on different uses when re-appraised from different angles or with different contexts. Fuller's lectures have a rage quality of rich nonlinear endless improvisation full of convergent surprises.

Some are put off by his language, which makes demands on your head like suddenly discovering an extra engine in your car - if you don't let it drive you faster, it'll drag you. Fuller won't wait. He spent two years silent after illusory language got him in trouble, and he returned to human communication with a redesigned instrument.

With that, empirical curiosity, and New England perseverance Fuller has bred one of the most original personalities and functional intellects of the age.

I see God in
the instruments and the mechanisms that
work
reliably,
more reliably than the limited sensory departments of
the human mechanism.
And God says
observe the paradoxes
of man's creative potentials
and his destructive tactics.
He could have his new world
through sufficient love
for "all's fair"
In love as well as in war
which means you can
junk as much rubbish,
skip as many stupid agreements
by love;
spontaneous unselfishness radiant.

The revolution has come-
ket on fire from the top
Let it burn swiftly.
Neither the branches, trunk, nor roots will be endangered.
Only last year's leaves and
the parasite-bearded moss and orchids
will not be there
when the next spring brings fresh growths
and free standing flowers.

Here is God's purpose-
for God, to me, it seems,
is a verb
not a noun
proper or improper
is the articulation
not the art, objective or subjective;
is loving,
not the abstraction "love" commanded or entreated;
is knowledge dynamic,
not legislative code,
not proclamation law
not doctrinal dogma, not ecclesiastic canon.
Yes, God is a verb,
the most active,
controlling the vast harmonic
resonating of the universe
from unleashed chaos of energy
And there is born unhampered
a great natural peace,
not out of weakness
pseudo-static security
but out of including, refining, dynamic balancing.
Naught is lost.
Only the false and nonexistent are dispelled.

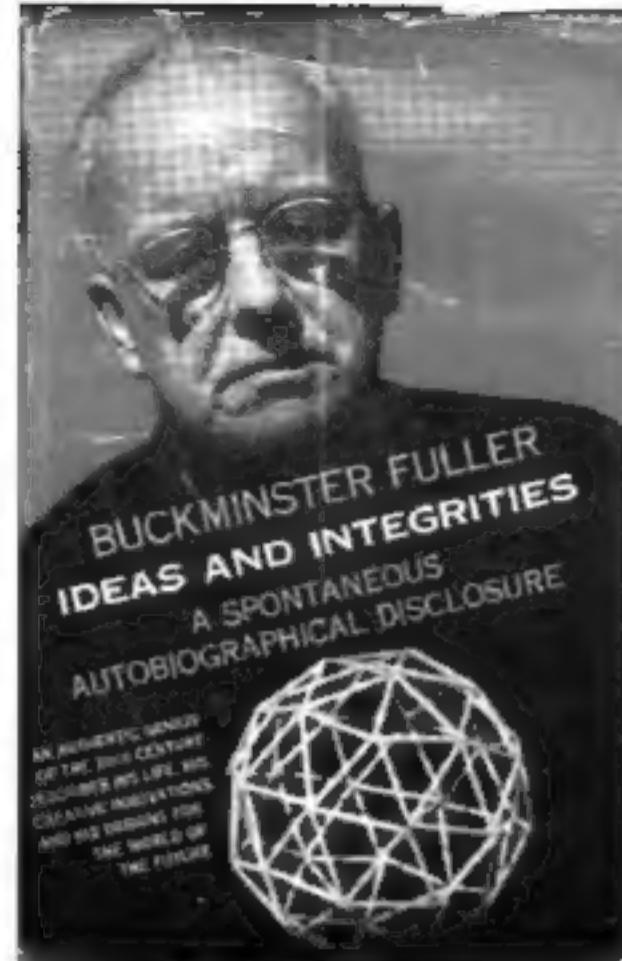
And I've thought through to tomorrow
which is also today.
The telephone rings
and you say to me:
Hello Buckling this is Christopher; or
Daddy its Alegra; or
Mr. Fuller this is the Telephone Company Business Office;
and I say you are inaccurate.
Because I knew you were going to call
and furthermore I recognize
that it is God who is "speaking."

And you say
aren't you being fanatical?
And knowing you I say no.

All organized religions of the past
were inherently developed
as beliefs and creeds
in "second hand" information.

Therefore it will be an entirely new era
when man finds himself confronted
with direct experience
with an obviously a priori
intellectually anticipatory competence
that has interrelated
all that he is discovering.

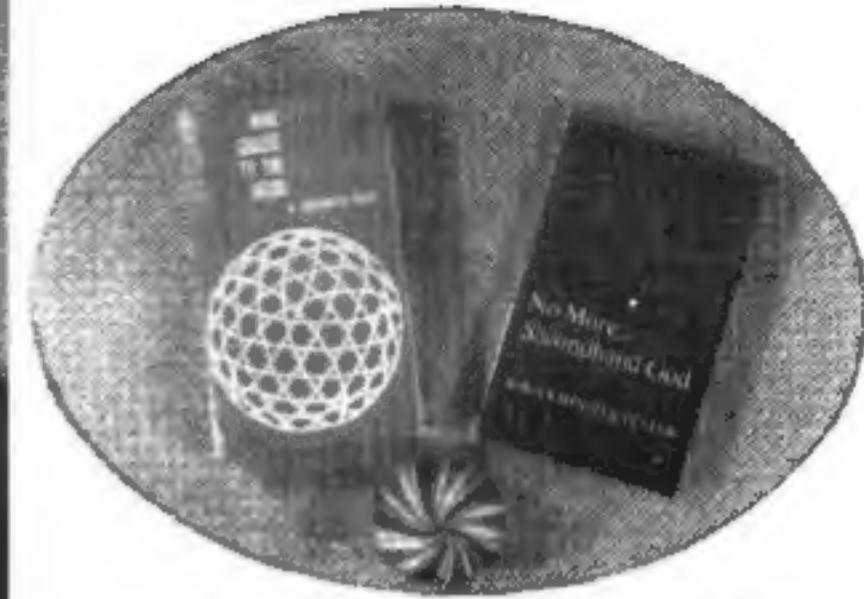
[No More Secondhand God]



Ideas and Integrities
Buckminster Fuller
1963, 318 pp.

\$10.00 postpaid

Phone: _____-Mail Inc.
Ex: _____-I Chrs
Mo: _____-07631
Or: _____
Wk: _____ ARTH CATALOG



Nine Chains to the Moon
Buckminster Fuller
1939, 1963; 375 pp.

\$2.45

both from
South _____ Iinois University Press
600 _____ Rand
Car _____ Illinois 62803
St _____
W.H.C. _____ ARTH CATALOG

No More Secondhand God
Buckminster Fuller
1963; 183 pp.

\$2.25 postpaid

[Ideas and Integrities]
Thinking is a putting-aside, rather than a putting-in discipline, e.g., putting aside the tall grasses in order to isolate the trail into informative viewability. Thinking is FM - frequency modulation-for a results in tuning-out of irrelevancies as a result of definitive resolution of the exclusively turned-in or accepted feed-back messages' pattern differentiability.

[Omnidirectional Halo] "No More Secondhand God"

Common to all such "human" mechanisms - and without which they are imbecile contraptions - is their guidance by a phantom captain.

This phantom captain has neither weight nor sensorial tangibility, as has often been scientifically proven by careful weighing operations of the moment of abandonment of the ship by the phantom captain, i.e., at the instant of "death." He may be likened to the variant of polarity dominance in our bipolar electric world which, when balanced and unit, vanishes as abstract unity I or O. With the phantom captain's departure, the mechanism becomes inoperative and very quickly disintegrates into basic chemical elements.

This captain has not only an infinite self-identity characteristic but, also, an infinite understanding. He has furthermore, infinite sympathy with all captains of mechanisms similar to his.

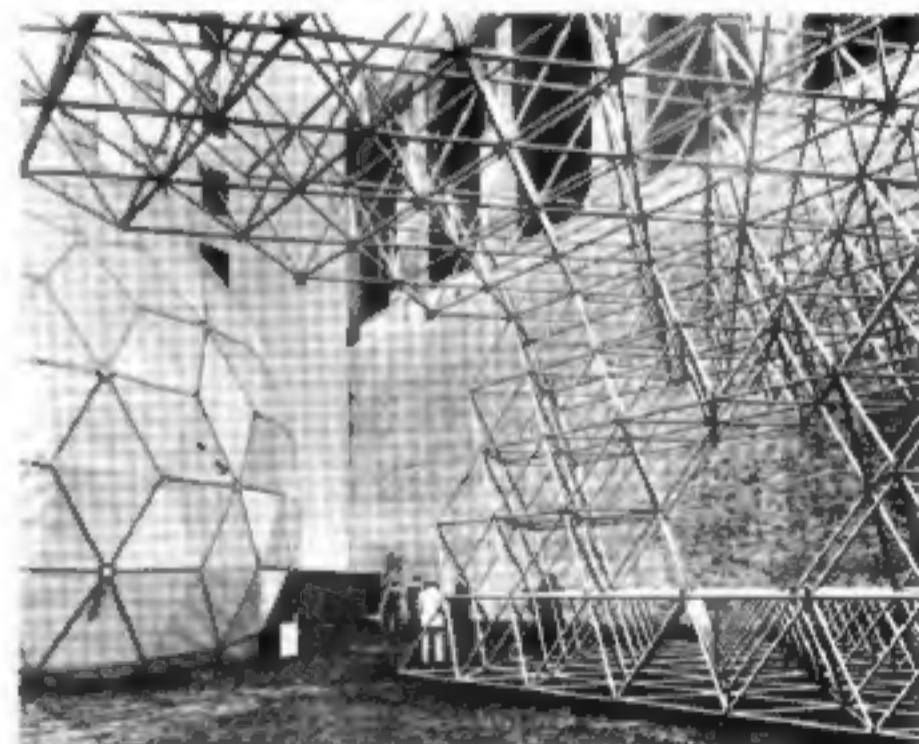
An illuminating rationalization indicated that captains - being phantom, abstract, infinite, and bound to other captains by a bond of understanding as proven by their recognition of each other's signals and the meaning thereof by reference to a common direction toward "perfect" - are not only all related, but are one and the same captain. Mathematically, since characteristics of unity exist, they cannot be non-identical.



WDSO Document 1

World society has throughout its millions of years on earth made its judgments upon visible, tangible, sensorially demonstrable criteria. We may safely say that the world is keeping its eye on the unimportant visible 1 percent of the historical transformation while missing the significance of the 99 percent of overall, unseen changes. Forms are inherently visible and forms no longer can "follow functions" because the significant functions are invisible . . .

There are very few men today who are disciplined to comprehend the totally integrating significance of the 99 percent invisible activity which is coalescing to reshape our future. There are approximately no warnings being given to society regarding the great changes ahead. There is only the ominous general apprehension that man may be about to annihilate himself. To the few who are disciplined to deal with the totally integrating trends it is increasingly readable in the trends that man is about to become almost 100 percent successful as an occupant of universe.



Our Air Force Radomes were installed in the arctic mostly by engineers and others who had never seen them before. The mass production technology made assembly possible at an average rate of 14 hours each. One of these radomes was loaned by the U.S. Air Force to the Museum of Modern Art in New York City for an exhibition of my work in 1959-1960. It took regular building trades skilled labor one month to assemble the dome in New York City.

WDSO Document 2

I define "synergy" as follows: Synergy is the unique behavior of whole systems, unpredicted by behavior of their respective subsystems' events.

[Ideas and Integrities]

selfishness (self-preoccupation pursued until self loses its way and self generates fear and spontaneous random surging, i.e., panic, the plural of which is mob outburst in unpremediated wave synchronization of the individually random components).

[No More Secondhand God]

To start off with it is demonstrated in the array of events which we have touched on that we don't have to "earn a living" anymore. The "living" has all been earned for us forever. Industrialization's wealth is cumulative in contradistinction to the inherently terminal, discontinuous, temporary wealth of the craft era of civilization such as the Bronze Age or Stone Age. If we only understood how that cumulative industrial wealth has come about, we could stop playing obsolete games, but that is a task that cannot be accomplished by political and social reforms. Man is so deeply conditioned in his cultures by his millenniums of says function that he has too many inferiority complexes to yield to political reformation. The obsolete games will be abandoned only when realistic, happier and more interesting games come along to displace the obsolete games.

[WDSO Document 3]

Tension and Compression are complementary functions of structure. Therefore as functions they only co-exist. When pulling a tension rope its girth contracts in compression. When we load a column in compression its girth tends to expand in tension. When we investigate tension and compression, we find that compression members, as you all know as architects, have very limited lengths in relation to their cross sections. They get too long and too slender and will readily break. Tension members, when you pull them tend to pull approximately, (almost) but never entirely, straight instead of trying to curve more and more as do too thin compressive members loaded columns. The contraction of the tension members in their girth, when tensionally loaded, brings its atoms closer together which makes it even stronger. There is no limit ratio of cross section to length in tensile members of structural systems. There is a fundamental limit ratio in compression. Therefore when nature has very large tasks to do, such as cohesioning the solar system or the universe she arranges her structural systems both in the microcosm and macrocosm in the following manner. Nature has compression operating in little minutely positioned islands, as high energy concentrations, such as the earth and other planets, in the macrocosm, or in isolated electrons, or protons or other atomic nuclear components in the microcosm while covering the whole universal system, both micro and macro, of mutually tensile, compressional, and oft non-simultaneous, islands by comprehensive tension-compression islands in a non-simultaneous universe of tension. The Universe is a tensegrity.

[WDSO Document 2]

I was born cross-eyed. Not until I was four years old was it discovered that this was caused by my being abnormally farsighted. My vision was thereafter fully corrected with lenses. Until four I could see only large patterns, houses, trees, outlines of people with blurred coloring. While I saw two dark areas on human faces, I did not see a human eye or a teardrop or a human hair until I was four. Despite my new ability to apprehend details, my childhood's spontaneous dependence only upon big pattern clues has persisted.

I am convinced that neither I nor any other human, past or present, was or is a genius. I am convinced that what I have every physically normal child also has at birth. We could, of course, hypothesize that all babies are born geniuses and get swiftly de-genitized. Unfavorable circumstances, short-sightedness, frayed nervous systems, and ignorantly articulated love and fear of elders tend to shut off many of the child's brain capability valves. I was lucky in avoiding so many disconnects.

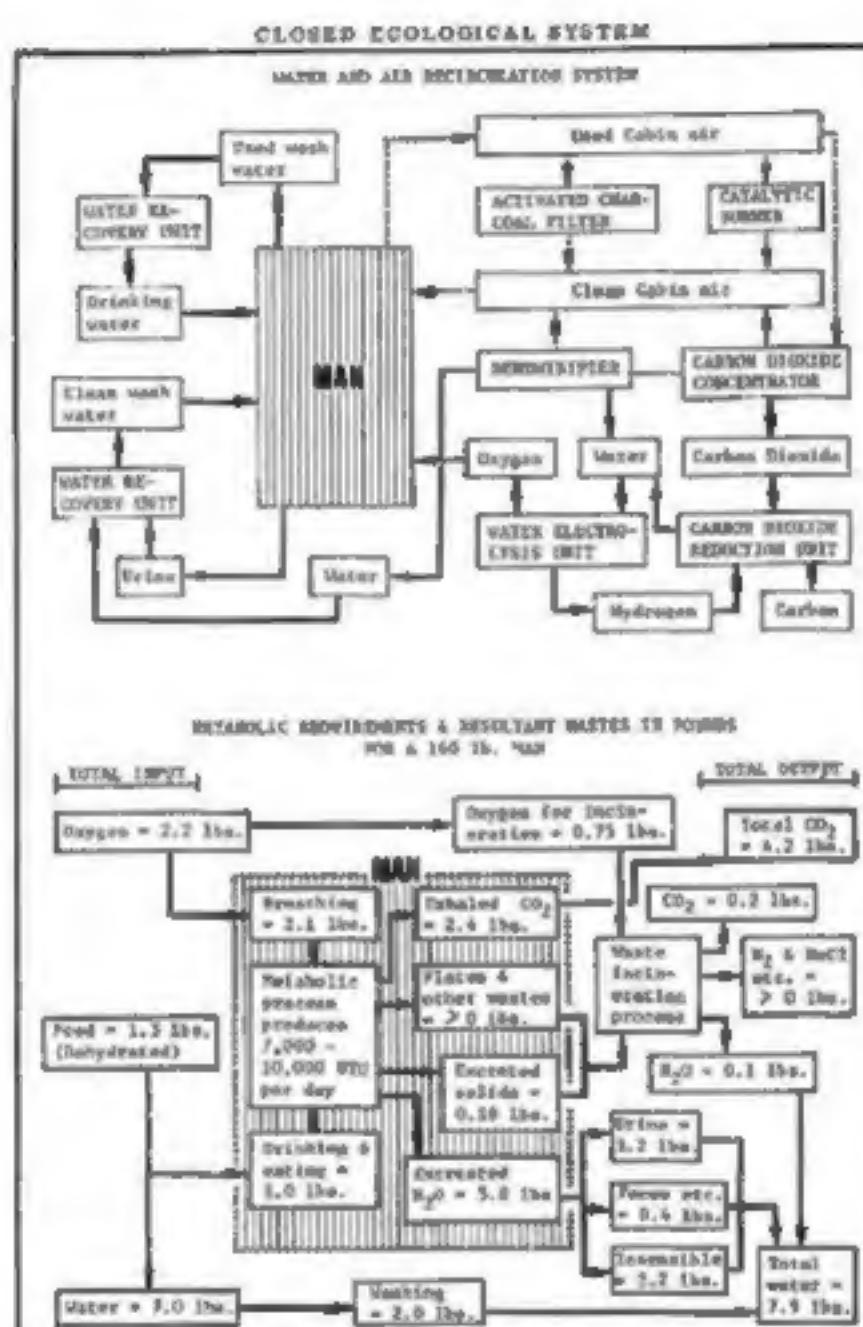
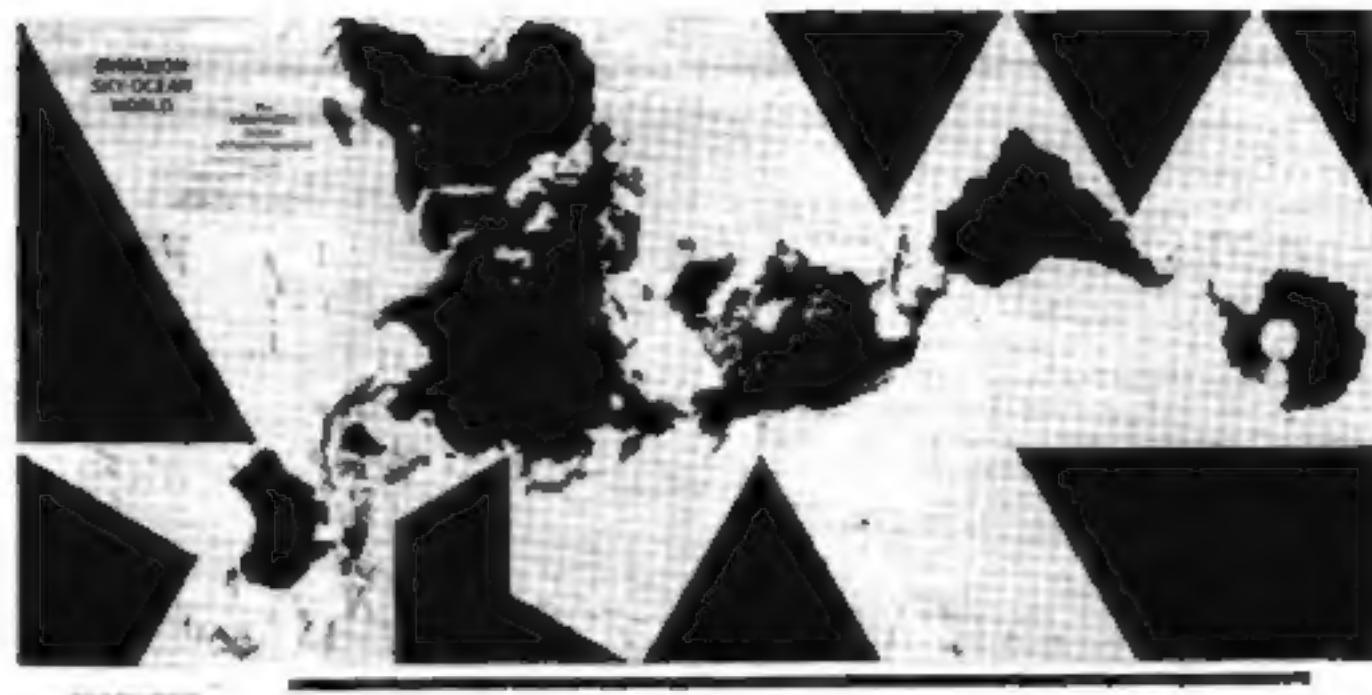
There is luck in everything. My luck is that I was born cross-eyed, was ejected so frequently from the establishment that I was finally forced either to perish or to employ some of those faculties with which we are all endowed-the use of which circumstances had previously so frustrated as to have to put them in the deep freeze, whereas only to unlikely hot situations could provide enough heat to melt them back into usability.

[WDSO Document 5]

In the 1920's with but little open country highway mileage in operation, automobile accidents were concentrated and frequently occurred within our urban and suburban presence. Witnessing a number of accidents, I observed that warning signs later grew up along the roads leading to danger points and that more traffic and motorcycle police were put on duty. The authorities tried to cure the malady by reforming the motorists. A relatively few special individual drivers with much experience, steady temperament, good coordination and natural tendency to anticipate and understand the psychology of others emerged as "good" and approximately accident-free drivers. Many others were accident prone.

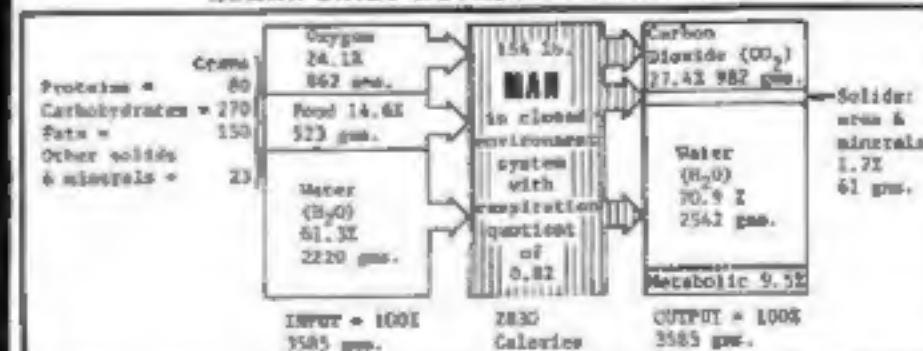
In lieu of the after-the-fact curative reform, tending to highly specialized individual offender case histories, my philosophy urged the anticipatory avoidance of the accident potentials through invention of generalized highway dividers, grade separators, clover leafing and adequately banked curves and automatic traffic control stop-lighting systems. I saw no reason why the problem shouldn't be solved by prevention design rather than attempted reforms. Key resolve: Reshape environment; don't try to reshape man.

[WDSO Document 1]



[WDSO Document 6]

HUMAN DAILY METABOLIC TURNOVER



The World Design Science Decade documents contain some that is in the other books and much that isn't. The 6 volume set costs \$10.50 postpaid to students (formal and informal), \$30.00 postpaid to others. This is a very good deal.

We find that original question asking is a consequence of interlinkages, whether in the computer or the human brain. We find then that original questions are second derivative events in the computer life.

[WDSO Document 2]

The Honeywell edition of Fuller's world map (more brightly colored than previous editions) is available.

\$4.00 pp paid

To: P.O. Box
P.O. 6, Illinois 62601

However man unconsciously sorting mail in an express train with unuttered faith that the engineer is competent, that the switchmen are not asleep, that the track workers are doing their job, that the technologists who designed the train and the rails knew their stuff, that the thousands of others whom we may never know by face or name are collecting tariffs, paying for repairs, and so handling assets that he will be paid a week from today and again the week after that, and that all the time his family is safe and in well being without his personal protection constitutes a whole new era of evolution-the first really "new" since the beginning of the spoken word. In fact, out of the understanding innate in the spoken word was industrialization wrought after millenniums of seemingly whiteness space work.

(The Unfinished Epic of Industrialization)

THE UNFINISHED EPIC OF INDUSTRIALIZATION
by R. Buckminster Fuller, 1963, 227 pp

from World Resources Inventory
4, Gurnee, Illinois 60031

Concept Twelve - SELF DISCIPLINES

Working assumptions, caution, encouragement, and restraint of intuitive formulations and spontaneous actions. My own rule: "Do not mind if I am not understood as long as I am not misunderstood."

PERSONAL SELF-DISCIPLINE
In 1927 I gave up forever the general economic dictum of society, i.e., that every individual who wants to survive must earn a living. I substituted, therefore, the finding made in concept one, i.e., an individual's environmental responsibility in universe. I sought for the tasks that needed to be done that no one else was doing or attempting to do, which if done would physically and economically advantage society and eliminate pain.

As a consequence, it was necessary for me to discipline my faculties to develop technical and scientific capabilities to invent the physical innovations and their service industry logistics.

Mr. Recommendations for a Curriculum of Design Science

1. Synergetics
2. General Systems Theory
3. Theory of Games (John Nash)
4. Chemistry and Physics
5. Topology, Projective Geometry
6. Cybernetics
7. Communications
8. Meteorology
9. Geology
10. Biology
11. Sciences of Energy
12. Political Geography
13. Ergonomics
14. Production Engineering

[WDSO Document 5]

Order from:
World Resources Inventory Office
Box F
Caro, Illinois 62601
or 77-1111-1111
Size: 35 x 20 inches

The will of history reads: Nor everybody or for nobody, and since we talk at "for nobody" it has to be "for everybody". And that's the way it is going, likely-spill and the world around.

[WDSO Document 3]



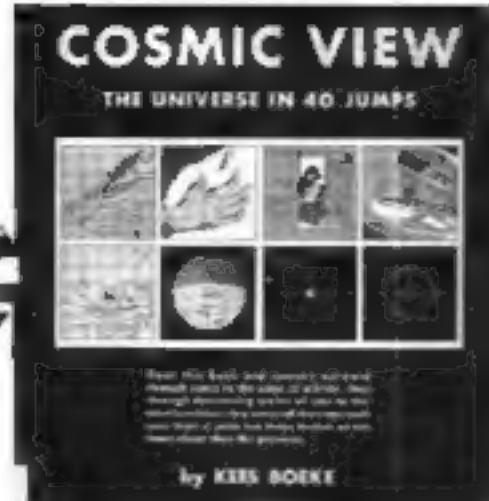
Cosmic View

"The Universe in 40 Jumps" is the subtitle of the book. It delivers.

The man who conceived and rendered it, a Dutch schoolmaster named Kees Boeke, gave years of work to perfecting the information in his pictures. The result is one of the simplest, most thorough, inescapable mind blows ever printed. Your mind and you advance in and out through the universe, changing scale by a factor of ten. It very quickly becomes hard to breathe, and you realize how magnitude-bound we've been.

I'm amazed this book isn't more commonly available. It's the best seller of The Whole Earth Truck Store. People get it for their friends.

Cosmic View
from
T - Day Company
6 - 45th Street
F - N.Y.
D -
W -
3.75 postpaid



Full Earth

In November 1967 an ATS satellite whose funds phenomenally had not been cut made a home movie. It was a time lapse film of the Earth rotating, shot from 20,000 miles above South America. (This is synchronous distance. The satellite orbits at the same speed the Earth turns, so it remains apparently stationary over one point of the equator.) Color photographs of the Earth were transmitted by TV every 1/2 hour to make up a 24 hour sequence. The shots



Earth photographs

NASA SP-129 is a half of a book. Two hundred forty-three full page color photographs of our planet from the Gemini flights of 1965. If it were a Stern Club book, and it could be, it would cost \$25. It costs \$7.

There are numerous discoveries in the book. One is that this beautiful place is scarcely inhabited at all.

were later dissolved together to make the movie. You see darkness, then a crescent of dawn, then advancing daylight and immense weather patterns whirling and creeping on the spherical surface, then the full round mandala Earth of noon, then gibbous afternoon, crescent twilight, and darkness again.

A 16mm 400-foot silent color print of the film includes several forms of the 24-hour cycle and close-up cropping of specific sectors as their weather develops through the day.

The film (NH 68-713) costs
\$48.94 plus shipping

from:
T - Ion Pictures
6 - 4 NE
F - N.L.C.G. 20002

An 8x10 color print of the full earth (NH-HC-14) costs
\$5.64 postpaid

from:
T - C - Arts Studio
6 - 109
F - D.C. 20001

Color posters (22x27) of the full earth photographs may be ordered from the WHOLE EARTH CATALOG for

\$2.00 postpaid

These posters are available for resale (minimum order 5) at 50% discount.



Earth Photographs from Gemini III, IV, and V.

NASA

1967: 266 pp.

\$7.00 postpaid

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U.S. - Government Printing Office
Wash. - D.C. 20402
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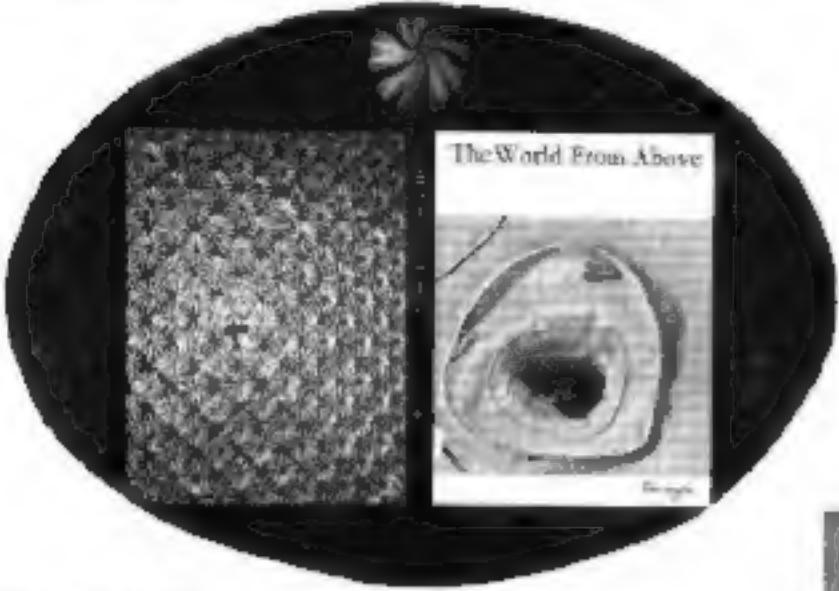


A second photograph of California's Imperial Valley, giving a clear view of the Salton Sea. The appearance varies according the time of the year and the season.



6 Whole Systems

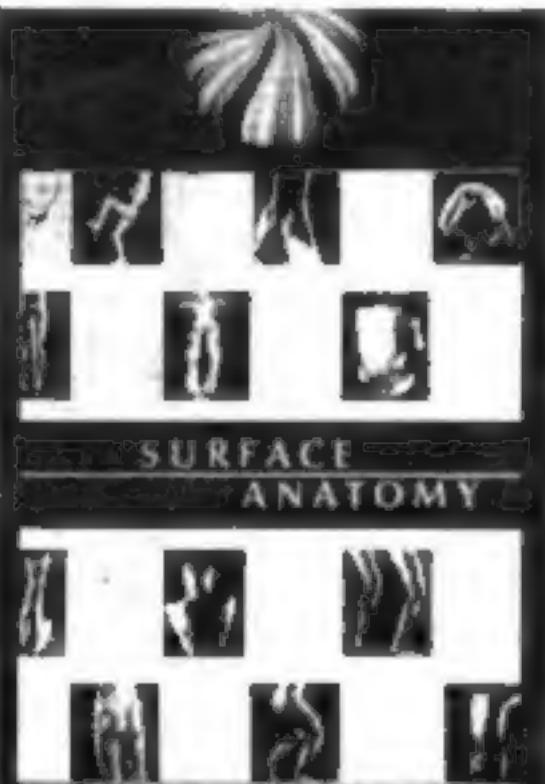
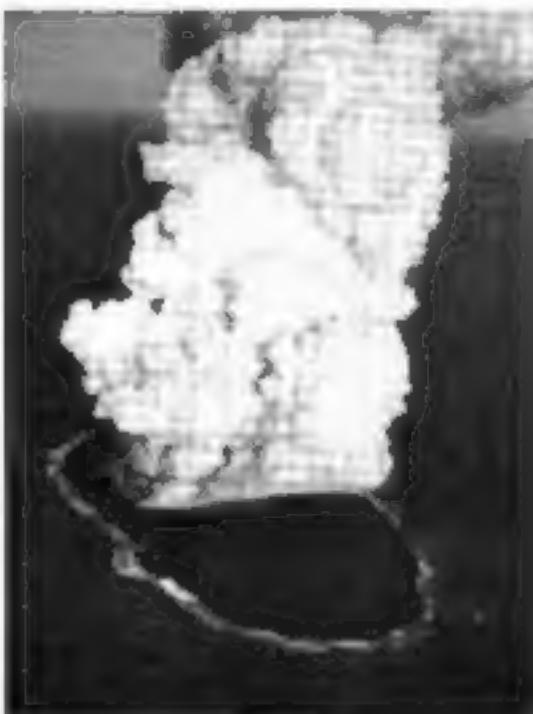
The World From Above



The World From Above

Hanne Reich
1980; 88 pictures
\$7.50 postpaid

From:
H&W and Wang, Inc.
141 Avenue
No. 4, N.Y. 10016
or
WHOLESALITH CATALOG



Surface Anatomy

Joseph Royce
1985; 124 photographs
and some diagrams
\$12.50 postpaid
from
S.A. Dineen Company
101 W. 45th Street
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WHOLESALITH CATALOG



Geology Illustrated

A artist of aerial photography, Shelton uses some 400 of his finest photos to illuminate a discussion of the whole-earth system. Not a traditional textbook, but a fascinating exploration of the problems posed by asking "How did that come about?" Worth buying for the photos and book design alone, but you'll probably find yourself becoming interested in geology regardless of your original intentions.

[Reviewed by Larry McCombs]



As a means of communicating geological concepts, the pictures are fully as important as the words that accompany them. On most pages the photographs represent the facts, the words supply the interpretation. Many of the illustrations will, therefore, repay a little of the kind of attention that would be accorded the real feature in the field. In keeping with this, almost no identifying marks have been placed on the photographs and very few on the drawings. The text (which almost invariably concerns an illustration on the same or a facing page) serves as an expanded legend for the picture; if, while reading it, it is necessary to look more than once to identify some feature with certainty, this is no more than Nature asks of those who contemplate her unlabelled cliffs and hills.

Geology Illustrated
John S. Shelton
1968; 434 pp.

\$10.00 postpaid

from:
W.H. Freeman & Company
500 California Street
San Francisco, Calif. 94104

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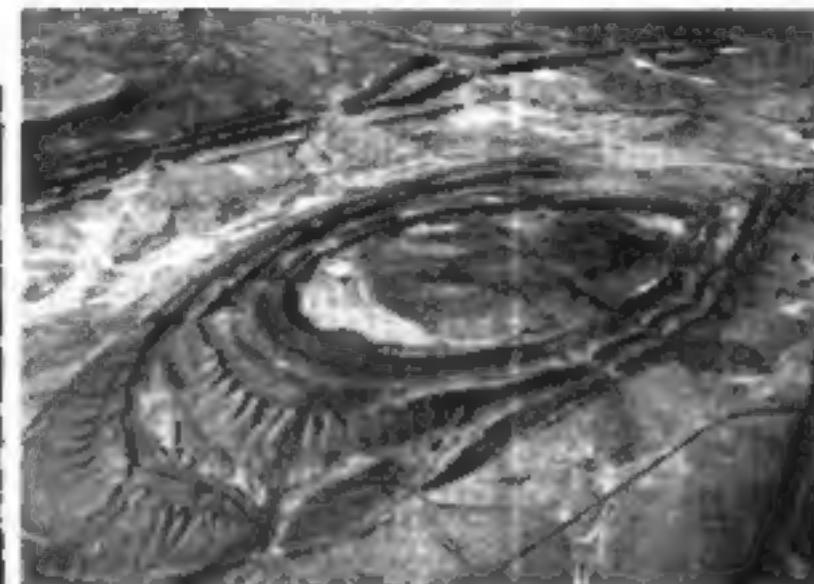
Whole Earth Catalog
7 Systems

Sensitive Chaos

Schwenk directs an institute in the Black Forest devoted to the study of the movements of water and air. Within the last few centuries, he says we have "lost touch with the spiritual nature of water." As a result, we have attempted to control the fluids in ways contrary to their nature, and the results are evident in the problems of pollution, damage to the ecosystem, and even drying up of natural water sources. Schwenk attempts to penetrate beyond the mere observable phenomena to an ability to "read" the true spiritual nature of flowing substances.

I found the book to be a peculiarly fascinating mixture of overgeneralization, simplification, undifferentiated fact and theory, and shrewd observation and insight. If you regard analogy as the weakest form of argument, this book is definitely not for you. On the other hand, Schwenk's juxtaposition of similar forms in different flowing media may spark some exciting associations, if you are open to them. The section of 88 pages of black and white photos at the back of the book could stand alone as a beautiful art collection.

[Reviewed by Larry McCombs]



Here too the form of the vortex seems to hover invisibly over the growth processes, even before the horns are actually there, for they proceed along this spiral path with mathematical exactitude in their annual growth. It is significant that the axes of the two spiraling horns meet either in the nose or the eyes or in their immediate vicinity, a fact which stresses the strong connection of the horns with sense perception and with the animal's sense of its surroundings. Furthermore, in structure, the horn, like the water vortex, is finely laminated, layer upon layer.

Sensitive Chaos
Theodor Schwenk
1968; 144 pp., 88 plates

\$12.00 [air postpaid]

from:
W.H. Freeman & Company
500 California Street
San Francisco, Calif. 94104

or
\$8.70 [postpaid]
from:
WHOLE EARTH CATALOG

The question is: Is my thought changing? It is and it isn't. One evening after dinner, I was telling friends that I was not concerned with improving the world. One of them said: "I thought you always were." I then explained that I believe - and am acting upon - Marshall McLuhan's statement that we have through electronic technology produced an extension of our brains to the world formerly outside of us. To me that means that the disciplines, gradual and sudden (principally Oriental), formerly practiced by individuals to pacify their minds, bringing them into accord with ultimate reality, must now be practiced socially - that is, not just inside our heads, but outside of them, in the world, where our central nervous system now is. This has brought it about that the work and thought of Buckminster Fuller is of prime importance to me. He more than any other to my knowledge sees the world situation all of it clearly and has fully reasoned projects for turning our attention away from "living" toward "livingly" . . .

Coming back to the notion that my thought is changing. Say it isn't. One thing, however, that keeps it moving is that I'm continually finding new teachers with whom I study. I had studied with Richard Buhlig, Harry Cowell, Arnold Schönberg, Daisetz Suzuki, Guy Neering. Now I'm studying with N.Q. Brown, Marshall McLuhan, Buckminster Fuller, Marcel Duchamp. In connection with my current studies with Duchamp, it turns out that I'm a poor chessplayer. My mind seems in some respect lacking, so that I make obviously stupid moves. I do not for a moment doubt that this lack of intelligence affects my music and thinking generally. However, I have a redeeming quality: I was gifted with a sunny disposition.

General Systems Yearbook

Everything we come across is to the point. Living underground because there was no money. Arizona had and still permits making mounds, covering them with cement, excavating to produce rooms, providing these with skylights. For anyone approaching, the community was invisible. Cacti, desert plants the land seemed undisturbed. Quantity (abundance) changes what's vice, what's virtue. Selfishness is not, carelessness is in. (Waste's



A Year From Monday

John Cage
1967. 167pp.Icon:
W
U
D
W
University Press
n. Conn. 06457
ARTH CATALOG

\$7.92 postpaid

On March XXXVI Weather feels good isn't More rain is needed. Water. He played two games, winning one, losing the other. He was continually himself, totally involved in each game, unmoved by the outcome of either. What's the nature of his teaching? For one thing: devotion (practice gives evidence of it). For another: not just playing half the game but playing all of it (having a view that includes that of the opponent). Suddenly a claim rose to

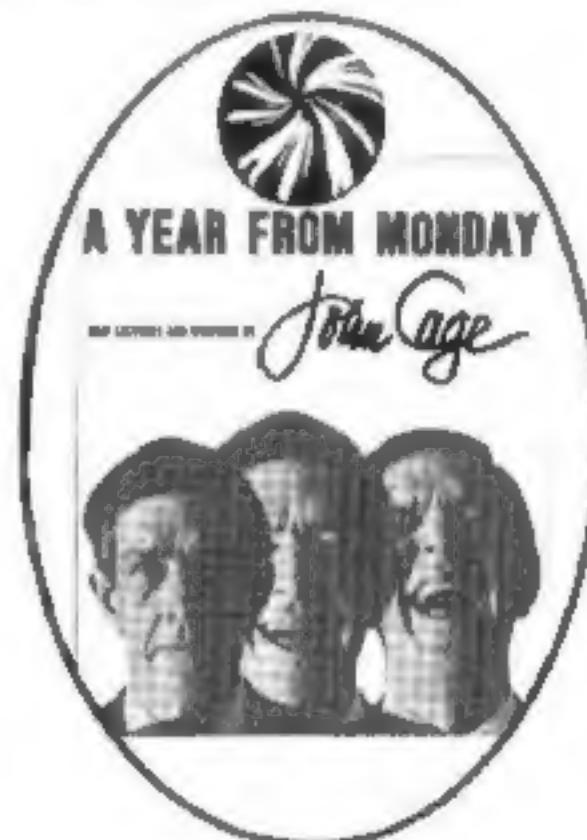
consciousness. "They think 'world' . . .

Theirs will be the most powerful and constructive revolution in all history."

L/T. More we leave the land, the more

productive it becomes. Techniques for changing society: education followed by unemployment. Article by Avner Herze on automation (Impact of Science on Society 13:1, Unesco publication).

Continuity values giving way to flexibility values. Automation alters what's done and where we do it. You could always tell when she was about to go out of her mind. She would begin to speak the truth. April '64: fifty-five global



General Systems Yearbook

General systems theory was introduced by biologist Ludwig von Bertalanffy some years back (one application has been systems analysis, which has recompended and redesigned much of business, technology, education, etc.). The General Systems Yearbook is edited by Bertalanffy and Anatol Rapoport.

By definition General Systems is a mixed bag. Kinds of systems covered in the Yearbook include Biological, Social, Psychological, Games, Linguistic, Political, Cybernetic and Metacological. Throughout is the search for common dynamics that transcend them all. Its technical, mathematical business, heavy reading, and maybe trivial, maybe wishful, but ever here and there is a gleam of something that might be a window to broad landscapes.

The current volume of the Yearbook (1967) is Volume XI. Titles of articles, working back as far as we have space are:

The price of the Yearbook is \$10.00 for recent volumes,
\$7.50 for earlier ones.

Consolidated contents booklet available free.

VOLUME IX (1964)

Sociometry and the Physical Sciences
Prediction in Physics and the Social Sciences
The Concept of Entropy in Landscape Evolution
Geomorphology and General Systems Theory
An Approach to the Conceptual Analysis of Scientific Crises
A Survey of General Systems Theory
The Self Theory of Mechanism and Homeostasis
Constraint Analysis of Many-Dimensional Relations
The Domain of Adaptive Systems: A Preliminary Taxonomy
Language Description of Concepts
Some Simple Models of Arms Races
The Problem of Systemic Organizations in Theoretical Biology
The Conceptual Formulation and Mathematical Solution of Practical Problems in Population Input-Output Dynamics
The Use of Mathematics and Computers to Determine Optimal Strategies for a Given Insect Pest Control Problem

VOLUME X (1965)

The Logic of Systems: An Introduction to a Formal Theory of Structure
The General System as a Methodological Tool
Systems Theory from an Operations Research Point of View
Some Problems in Meteorology and Psychology
The Artificiation of Complexity
On the Emergence of Patterns of Order
On the Stability of Brain-Like Structures
Some Considerations on the Notion of Invariant Field in Linguistics
Toward a Unifying Theory of Cognition
Contributions to Stochastic Learning Theory
Aspiration Levels and Utility Theory
Decision-Making in Experimental Conditions
What is Kilianism: The Perception of Choice Within Game and Learning Model Frameworks
Models of Southern Kwakiutl Social Organization
A Field Theory of Social Action with Application to Conflict
VOLUME XI (1966)

Mathematical Aspects of General Systems Theory
Toward a Theory of Parts and Wholes: An Algebraic Approach
Metacology and the Social Sciences: Further Comparisons
Methodological Problems of System Research
Metaregulation of Information
The Insect Cornual Nipple Army
The Wholeness of Living Systems and Some Basic Biological Problems
On the Origin of Order in Behavior
A Cognitive Approach to the Analysis of Cultures and Cultural Evolution
The University-Community System: Self-Regulated Source of Meaning
A Condensation of Warpeace Space
On Some General Categories of Linguistics
The Theory of Meta-Games
The Mathematicization of Meta-Games
Benevolence in Game Theory
A Taxonomy of 2 x 2 Games
An Analysis of Duopoly Bargaining
Two Motivations for Detection in Prisoner's Dilemma Games
Empirical Approaches to Game Theory and Bargaining: a Bibliography

VOLUME XII (1967)

The Evolution of the Human Brain: Some Notes Toward a Synthetic Bohr-Meissel Structure and the Evolution of Complex Behavior
Organismic Scale: Outline of a General Theory of Biological and Social Organisms
The Orderliness of Biological Systems
Colony Development of a Polymorphic Hydroid as a Problem in Pattern Formation
A Geometric Model with Some Properties of Biological Systems
The Regulation of Political Systems
Types of Asymmetry in Social and Political Systems
A Quantitative Approach to the Dynamics of Perception
Some Psychological Aspects of Psychometry
A Further Extension of General Systems Theory for Psychiatry
A Dynamic Model of the Conflict Between Criminals and Society
Some Comparisons Between Traffic Deaths and Suicide
Crime Rate vs. Population Density in United States Cities: A Model Simulation of Socio-Economic Systems
An Empirical Test of Five Assumptions in an Inter-National Simulation About National Political Systems

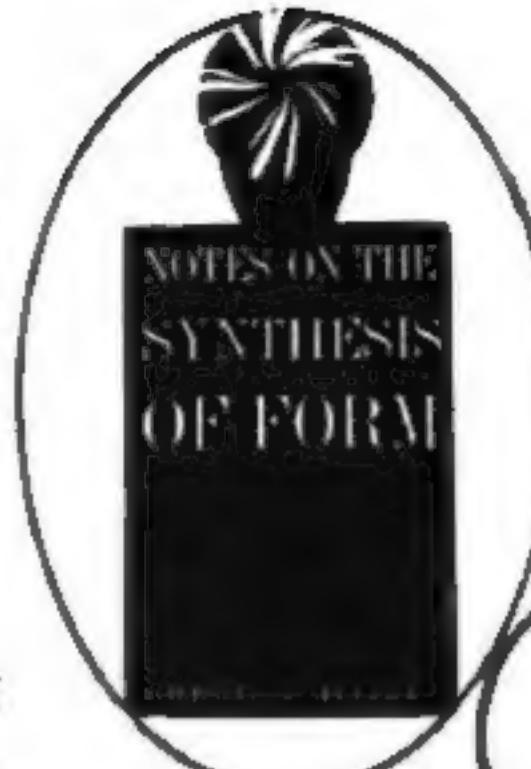


Synthesis of Form

Christopher Alexander is a design person that other people refer to a lot. This book deals with the nature of current design problems that are expanding clear beyond any individual's ability to know and correlate all the factors. The methodology presented here is one of analysis of a problem for misfits and synthesis of form (via computer-translatable nets and hierarchies) for minimum misfits.

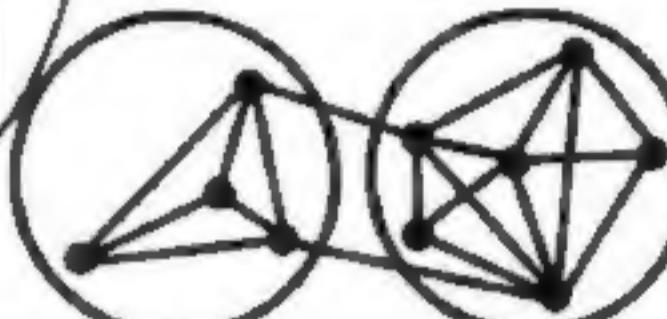
[From the table of contents]
 2. Goodness of Fit 15
 3. The Source of Good Fit 28
 4. The Unconscious Process 46
 5. The Selfconscious Process 56

But if we think of the requirements from a negative point of view, as potential misfits, there is a simple way of picking a finite set. This is because it is through misfit that the problem originally brings itself to our attention. We take just those relations between form and context which obtrude most strongly, which demand attention most clearly, which seem most likely to go wrong. We cannot do better than this. If there were some intrinsic way of reducing the list of requirements to a few, this would mean in essence that we were in possession of a brief description of the context. If this were so, the problem of creating fit would become trivial, and no longer problem of design. We cannot have a unitary or field description of a context and still have a design problem worth attention.



Indeed, not only is the man who lives in the form the one who made it, but there is a special closeness of contact between man and form which leads to constant rearrangement of unsatisfactory detail, constant improvement. The man, already responsible for the original shaping of the form, is also alive to its demands while he inhabits it. Any anything which needs to be changed is changed at once.

A subsystem, roughly speaking, is one of the obvious components of the system, like the parts shown with a circle round them. If we try to adjust a set of variables which does not constitute a subsystem, the repercussions of the adjustment affect others outside this set because the set is not sufficiently independent. The procedure of the unconscious system is so:



organized that adjustment can take place in each one of these subsystems independently. This is the reason for its success.

In the conscious case situation, on the other hand, the designer is faced with all the variables simultaneously

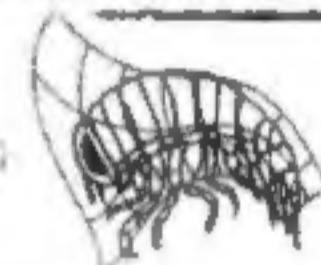
The greatest clue to the inner structure of any dynamic process lies in its reaction to change.

The Mousgoum cannot afford, as we do, to regard maintenance as a nuisance which is best forgotten until it is time to call the local plumber. It is in the same hands as the building operation itself, and its exigencies are as likely to shape the form as those of the initial construction.

The selfconscious individual's grasp of problems is constantly limited. His concepts and categories, besides being arbitrary and unsuitable, are self-perpetuating. Under the influence of concepts, he not only does things from a biased point of view, but sees them biased as well. The concepts control his perception of fit and misfit – until in the end he sees nothing but deviations from his conceptual dogmas, and loses not only the urge but even the mental opportunity to frame his problems more appropriately.

The solution of a design problem is really only another effort to find a unified description. The search for realization through constructive diagrams is an effort to understand the required form so fully that there is no longer a rift between its functional specification and the shape it takes.

Two misfits are seen to interact only because, in some sense at least, they deal with the same kind of physical consideration ... It is such a physical center of implication, if I may call it that, which the designer finds it easy to grasp. Because it refers to a distinguishable physical property or entity, it can be expressed diagrammatically and provides a possible non-verbal point of entry into the problem.



On Growth and Form

Fig. 143. (a) *Morphae planeta* K.; (b) *Diplopodus cophorus* K.; (c) *Morphae pulo*.

A paradigm classic. Everyone dealing with growth or form in any manner can use the book. We've seen worn copies on the shelves of artists, inventors, engineers, computer systems designers, biologists. Would one of you do a thorough review of D'Arcy Thompson's venerable book for the CATALOG?

When Plateau made the wire framework of a regular tetrahedron and dipped it in soap-solution, he obtained in an instant a beautifully symmetrical system of six films, meeting three by three in four edges and those four edges running from the corners of the figure to its centre of symmetry. Here they meet, two by two, at the Maraldi angle, and the films meet three by three, to form the re-entrant solid angle which we have called a 'Maraldi pyramid' in our account of the architecture of the honeycomb.

The very same configuration is easily recognized in the minute siliceous skeleton of Callimira. There are two discrepancies, neither of which need raise any difficulty. The figure is not rectilinear but a spherical tetrahedron, such as might be formed by the boundary edges of a tetrahedral cluster of four co-equal bubbles; and just as Plateau extended his experiment by blowing a small bubble in the centre of his tetrahedral system, so we have a central bubble also here. This bubble may be of any size; but its situation (if it be present at all) is always the same, and its shape is always such as to give the Maraldi angles at its own four corners. The tension of its own walls, and those of the films by which it is supported or slung, all balance one another. Hence the bubble appears in plane projection as a curvilinear equilateral triangle; and we have only got to convert this plane diagram into the corresponding solid to obtain the spherical tetrahedron we have been seeking to explain (Fig. 63).

The geometry of the little inner tetrahedron is not less simple and elegant. Its six edges and four faces are all equal. The films attaching it to the outer skeleton are all plane. Its faces are spherical,

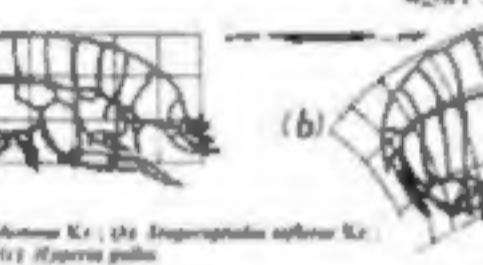


Fig. 143. (a)

Morphae planeta K.



Fig. 143. (b)

Diplopodus cophorus K.

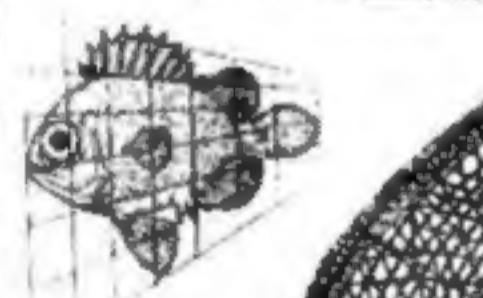


Fig. 143. (c)

Morphae pulo.

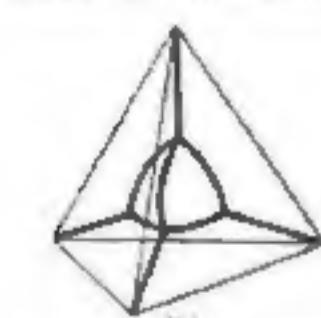


Fig. 144. Diagrammatic construction of Callimira. (a) A bubble suspended within a tetrahedral cage; (b) another bubble within a skeleton of the former bubble.

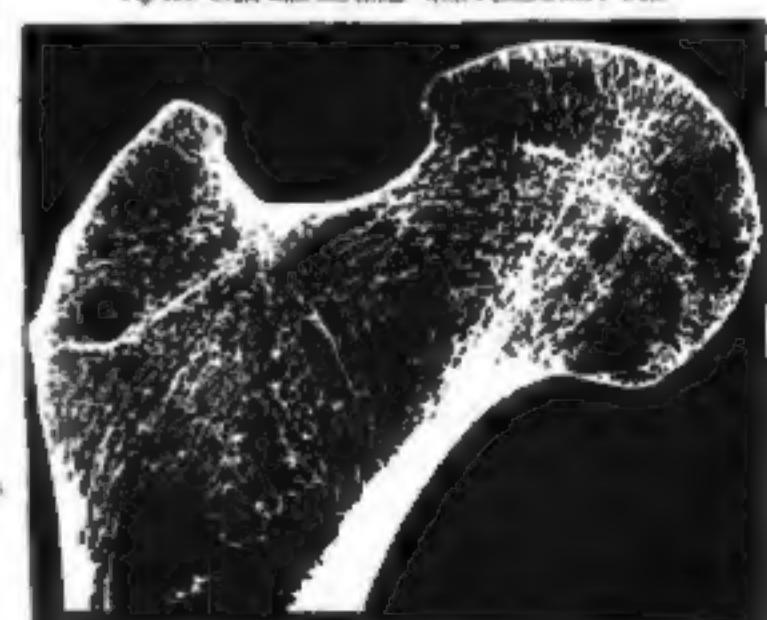
and each has its centre in the opposite corner. The edges are circular arcs, with cosine $\frac{1}{2}$; each is in a plane perpendicular to the chord of the arc opposite, and each has its centre in the middle of that chord. Along each edge the two intersecting spheres meet each other at an angle of 120° .

Fig. 145. A hexagonal skeleton. *Callimira cophorus* K. (a) wire diagram.



Fig. 145. (a)

This engineer, who had been busy designing a new and powerful crane, saw in a moment that the arrangement of the bony trabeculae was nothing more nor less than a diagram of the lines of stress, or directions of tension and compression, in the loaded structure; in short, that Nature was strengthening the bone in precisely the manner and direction in which strength was required; and he is said to have cried out, 'That's my crane!'



On Growth and Form
D'Arcy Wentworth Thompson
two volume edition
1917, 1961

\$27.50 postpaid
Abridged paper edition
1917, 1961, 346 pp.

\$2.45 postpaid

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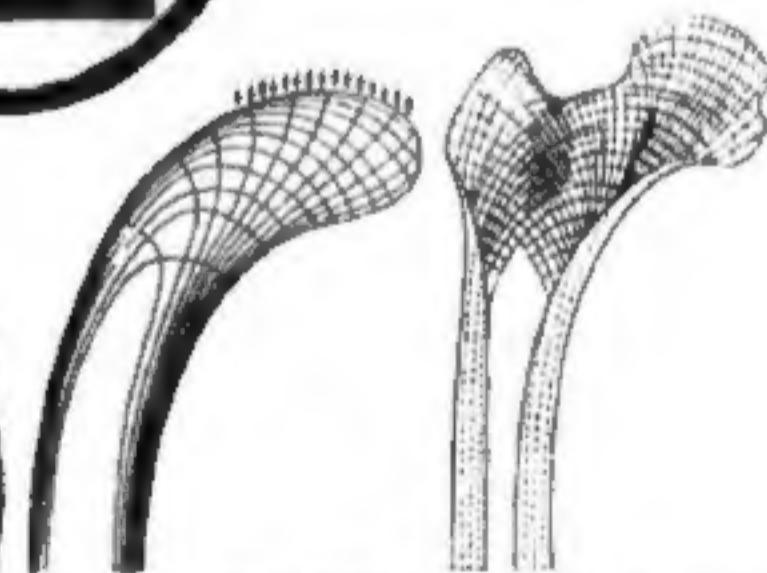
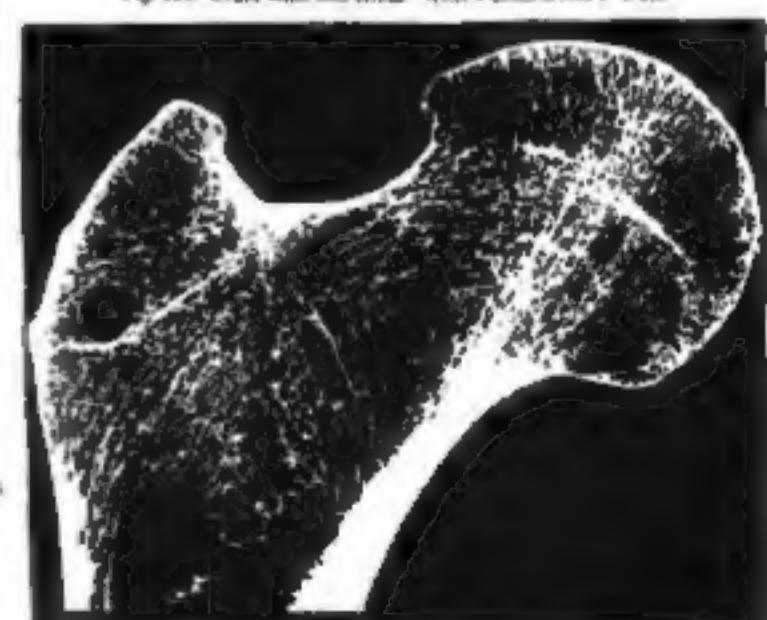
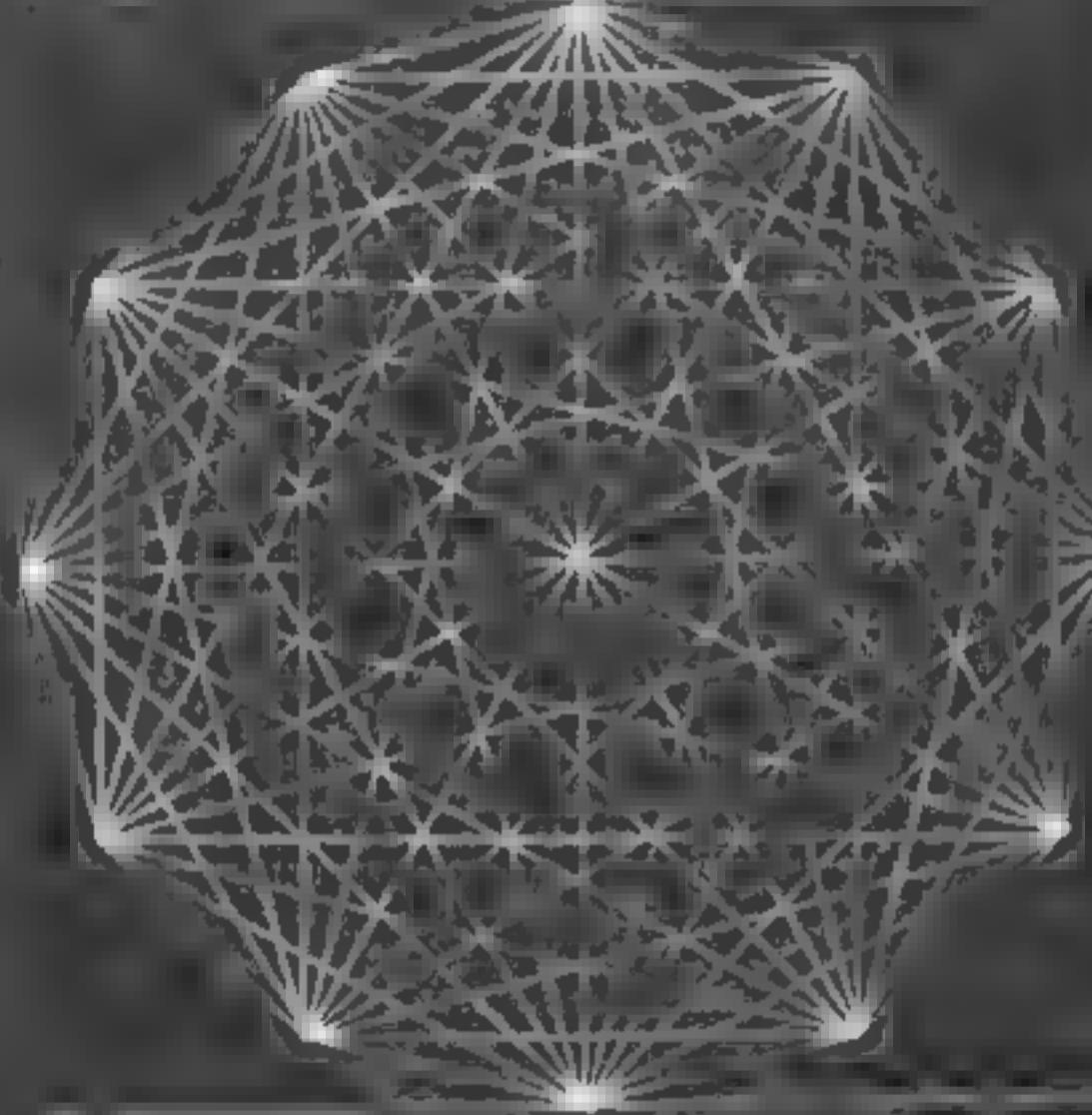
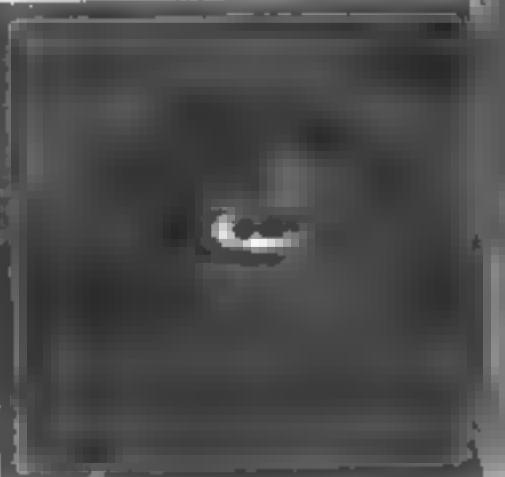


Fig. 146. Elbow-bend and femur. After E. Smeus and E. G. Smith.





TANTRA ART



Suggested by Anil Hoga. Reviewed by Esther Durkin.

"What is here, is elsewhere.
What is not here, is nowhere."

Vishvasara Tantra

Tantra Art

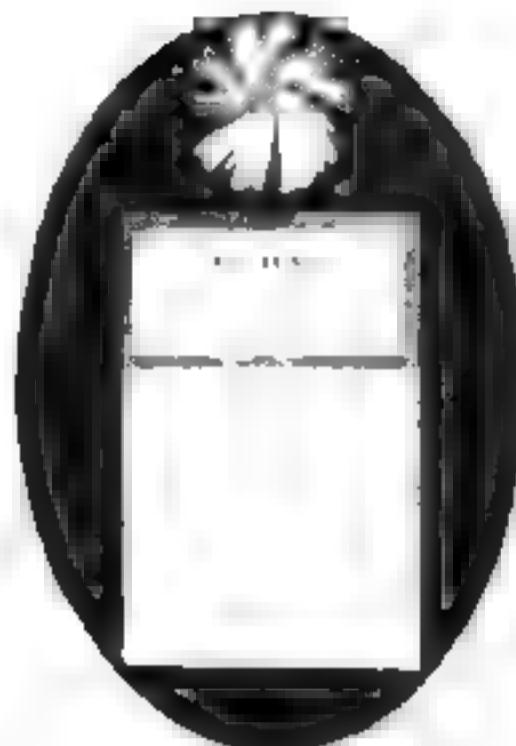
2-11 Mackintosh
1966. 120 pp.

From R. K. Kumer
Av. D. President Kennedy
1a. 16th F. P.H.C.

\$33.00 postage

LE EARTHDATA OG

This is the only art book in the CATALOG.



Psychological Reflections

Jung - capsules and testing the measures

The selection and editing of paragraphs from Jung's writings by Jacoby is done with an informed sense of continuity, so that the book is readable in sequence - or in parts.

In a world increasingly subjective, everybody is psychologist to one another. Here is one master book of tools.

Psychological Reflections

\$2.25 post paid

This man who would bear the human mind up gain almost nothing
to an experimental psychology—gratified but so far away from
human power to say how far greater this body will be when with a grace
been brought still he would. There is no material of the present—
and the material of the future—of which he can speak.
the salons of the elegant—like the one argues as well as the
old great novels still interest him as do the old plays in spite of the
dissolution of certain old truths in the new plays. He avoids exp-
licit shape of knowledge that need trouble a rock or a solid as a man
in the air. He follows in due time his health and his life.

In most of the countries of Latin America it is difficult to determine what educational and social needs in American the school gives best satisfaction of all those which have been tried. This requires your opinion. I am in full agreement with Mr. Andover and would only add one point of view which he does not mention. He recommends change in the schools in certain steps if agreed by Congress and the people.

After obtaining the consent, the operator then performs the most extensive daily activities from a correspondence related to the patient's condition, laboratory tests

No one develops his personality to the best advantage by trying to fit himself into a single box. He is a Native type who will probably find himself more content than he will anywhere else in China than in Japan through usual connections travel round and make all kinds of contacts. Nothing though shall without need and human judgment allow him to do all kinds of things which would bring him into the strongest possible strife or cause him to feel he had been betrayed.

It is apparently a fundamental error to believe that the law of the value of a value is violated in a half the case of the 100 billion dollar value held by the Federal Reserve Bank. It is possible that the overwhelming majority of the 100 billion dollars is deposited in a single account, namely the money itself, because it depends on a person's right to withdraw it. In this case, it is apparent that the value held would not give the 100 billion dollars of additional value which are not held in it. The authority to carry all conceivable values in banks at their addresses is given at 100% discretion about 40% of the time in the United States, yet it is not used to the extent that there are actually 100 billions worth of 100 billions. Nevertheless, it is this way ended by throwing himself overboard with the described account.

The gigantic catastrophes that threaten us are not limited to the occurrence of global physical or biological kinds; civil and social events also will all kinds of harmful may try their way in the future. Even the existing one has psychic epidemics. At any moment a few million people may be seized by a madness and then we have another world war, regardless of its solution. Instead of being expatriated with tanks, millions of men and women along with their families resign to the election of their own psychos. But, he who is a world power then can make by every means all the powers of the earth. The enlightenment which is spread in family and human institutions of goods overcomes the non-psychic who dwells in the psyche. Fear of God is in place if anywhere during the distinguishing power of psychic life.

No doubt it is a great mistake that mankind is not uniform but composed of individuals whose psychic structure spreads them over a span of at least ten thousand years. Hence there is absolutely no truth that does not spell salvation to one person and damnation to another. All universalisms get stuck in this terrible dilemma.

The Human Use of Human Beings

whole
System

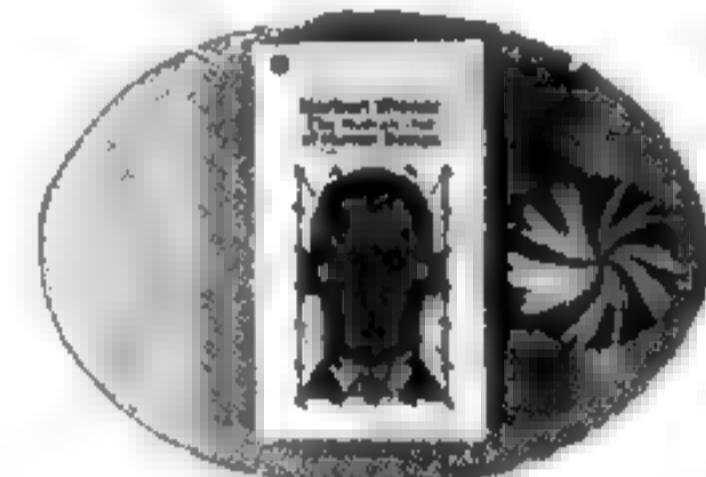
Norbert Wiener is one of the founders of an n-dimensional inhabited world whose nature we are yet to learn. He is also one of the all-time nice men.

A proper sequitur his *Eukybernetics* (see p. 32). This book is social, untechnical, ultimate in most of its consideration. Its domain is the whole earth of the mind.

The Human Use of Human Beings
William Bennis
\$5.95 1954 248pp

\$1.25

2008-09-09



It is this theme of the article that especially gave birth to undertaken research activity at the Institute, given that communication is often seen as being in it and that in the future development of themes from language and communication activities, communication research must also take into account linguistic aspects, which are more difficult to define or measure in research.

Managers are themselves a form of pattern and organization. Indeed it is possible to treat sets of measures as having an ordinary life of their own, like other objects, and in this way it is often done. It is also true that a set of rules, a code of laws, or whatever is a means of organization, is not a living being; it is only the individual who uses it who can be reasonably regarded as a living being, and the resulting happenings in its personality. That is why we say that there are no living beings in a dead machine, the example not being distinguishing them from persons.

Impact tool builds a critical edge of the entrepreneurial program. The lesson which comes from the old adage is right because it has at a very early stage of the game the culture which should be passed on but will lead to highly useful technical development for the company and also the R&D we build supports and the things which are contributing greatly to success in the long term. Overall we would select probably 40 entrepreneurs well known for going beyond what is expected.

We are not sure how stable this relationship shall persist because home values are considered a necessary item for transmigration, and a considerable

It is interesting to know that the sort of abomination which is recorded subjectively as amateur may be merely a harmless epiphany of an author, but may control some essential aspect in his work, and in other similar instances.

It is the Queen's plan which is demanding the utmost of secrecy for the day 4,000 or 5,000 British men to stay loyal to military 1999
in our service, we have seen up more than the wish of a sick
population to to learn the progress of its own disease.

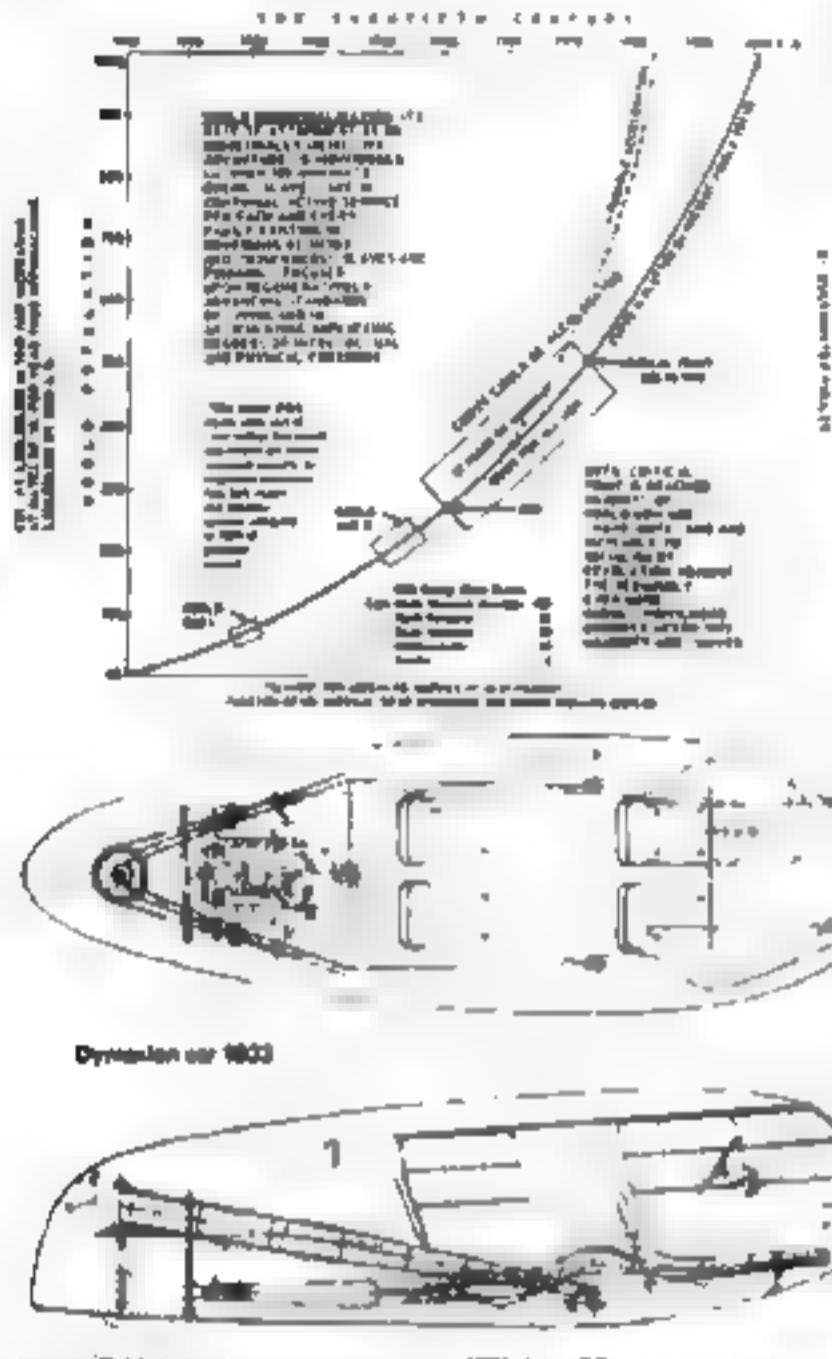
The Dymaxion World of Buckminster Fuller

The most graphic of Fuller's books is *about his work by Robert Moses*. Consequently it is the most directly useful if you are picking up on specific projects of his such as domes, geometry, cars, demographic maps and charts, etc.

The Dymaxion World of Buckminster Fuller

Robert W. Moses
96 pp. \$5.00
\$10.00 postpaid

From
Scribner
P
6
Illinois University
Grand



Space Structures

This is a big fat reference book on domes, trusses, cable nets forms that will keep the rain out in a big way or elegantly hold water or electric lines up in the air. The book resulted from the International Conference on Space Structures held in London in 1966. It's said to be the "big, comprehensive book book of its kind." Very heavy book. It'll either help you or discourage you depending on how far into construction you are.

We could use an informed review on this one. If we don't get it we'll drop the book.

Space Structures
R.M. Daylee, ed.
1967 1230 pp.

\$46.50 postpaid

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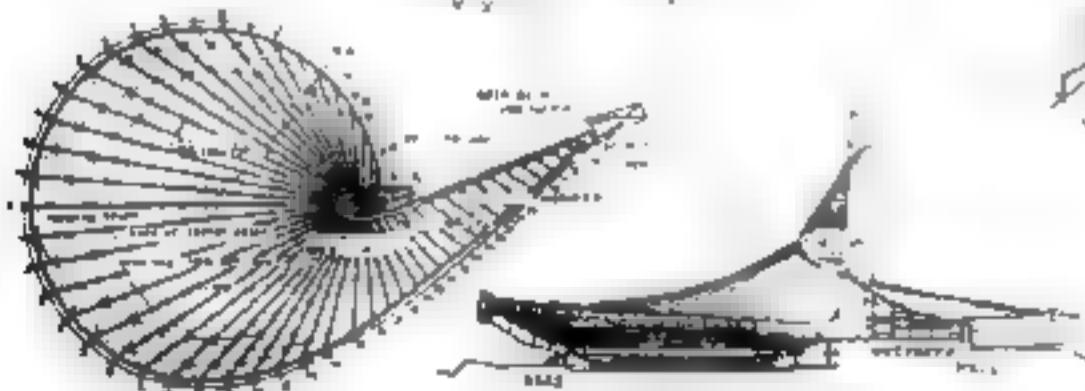
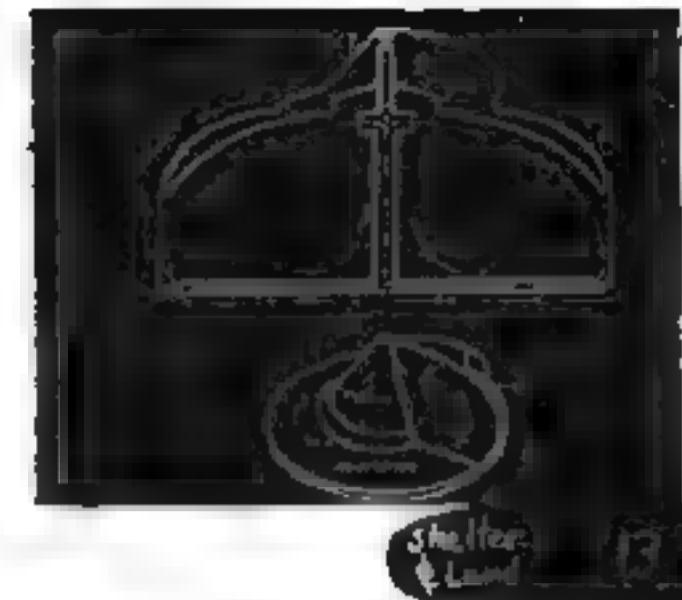


Figure 3. Roof panel and section.



Fuller Sun Dome

The most readily available plans for a geodesic dome are these. The \$5 cost includes construction license. Built of wood strips and cheap polyethylene skin, the dome can be built up to 30 feet diameter. For more elaborate plans you should correspond with Fuller at office Box 309, Carbondale, Illinois.

Suggested by Ken Babbs

Geodesic Sun Dome

\$5.00

\$5.00 postpaid

From:

Harold Murphy
1400 Avenue A
N.Y. 10019

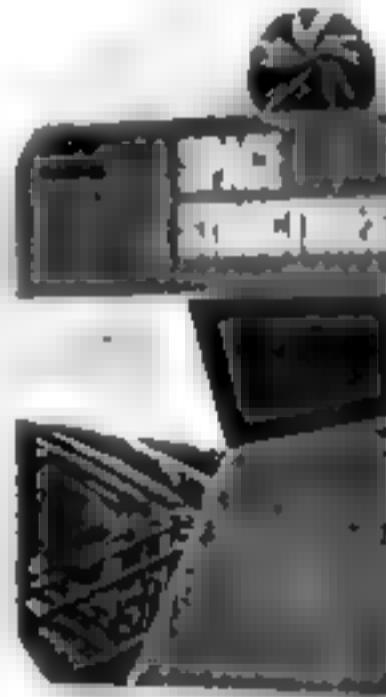


Figure 4. Pattern of the geodesic sun dome trusses with one joint.

Figure 5. "Failure of a Dome of Great Size"

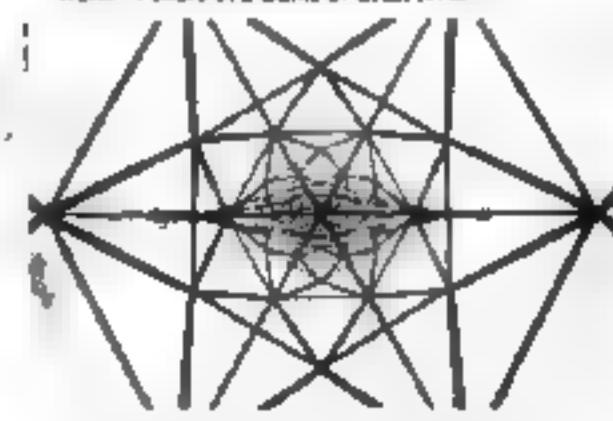
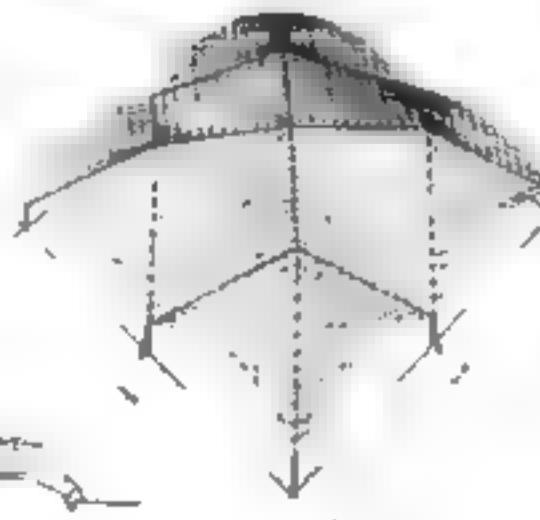


Figure 6. Two drawings made from the same set of plans.

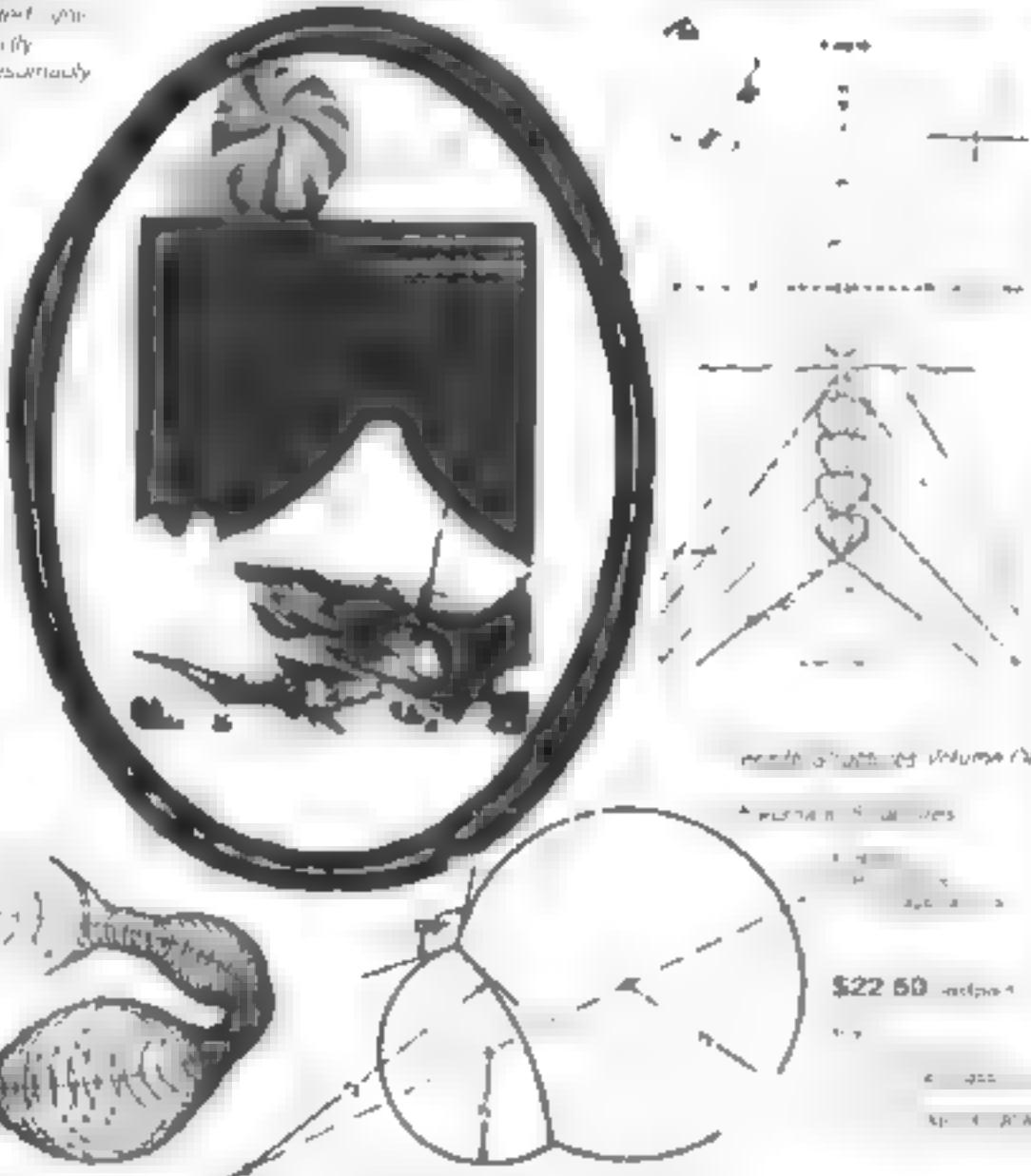
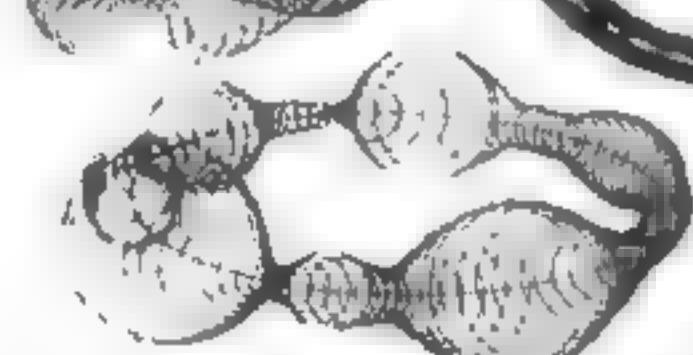
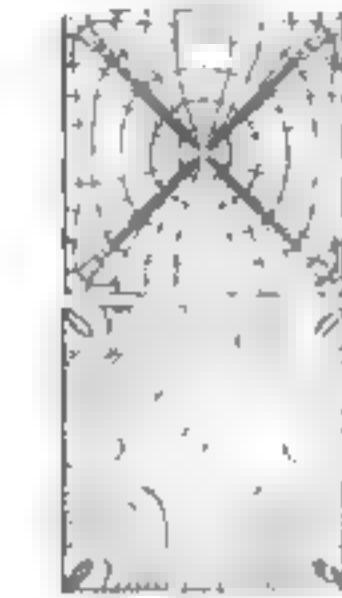
Tensile Structures, Volume One

The only pavilion or Farnsworth more beautiful than Fuller's is S. Dione was the West German tent designed by Frei Otto. He is currently the master of structures whose flexible skin is the prime structural element. Volume One of his 2 Volume work is devoted to Pneumatic Structures. An houses over 1000 designer we know who is seen this book has commanded to graphic and witty jump up and down and launch into an artistic endorsement of this design during a designer and look at this here.

The book is comprehensive in its field. Tech-



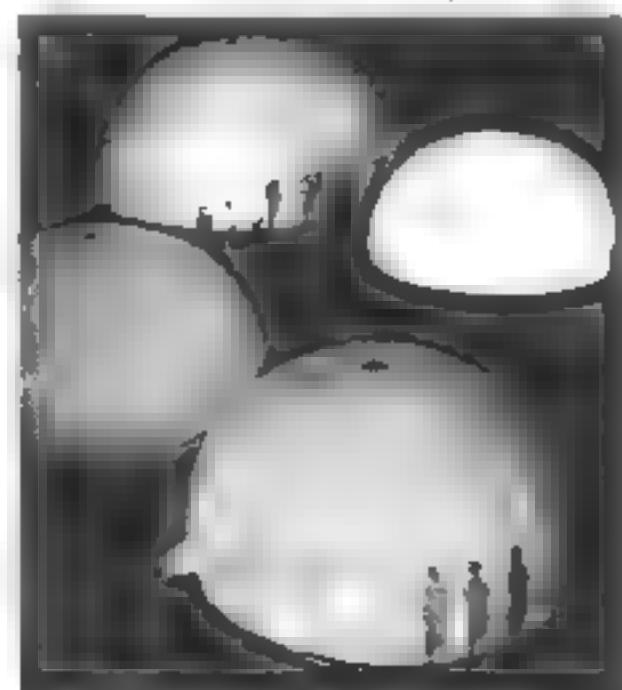
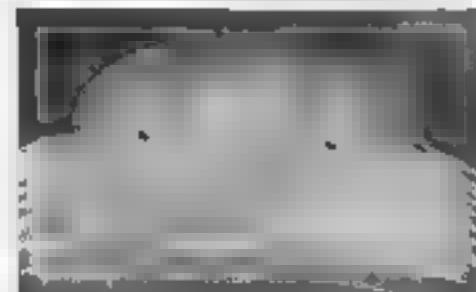
In the first edition of the book, which was published in 1971, the plastic structures, which were available for \$ 8.50 from MIT, is presumably equally good.



The middle surface of this trade fair has a smaller but much steeper slope. This is due to the difference in the air pressure between the interior and exterior. The membrane is the skin with all the load transferred to the ground. It is supported by a steel frame and a steel cable system. The cables are anchored to the ground at different points, creating a tensioned structure. The cables are anchored to the ground at different points, creating a tensioned structure.

If two soap bubbles of different diameters form a soap bubble ring (Fig. 10), the membrane is curved. If the membrane stresses are equal, the gas pressure p in the smaller bubble is higher than that in the larger bubble. The relationship between the radius r , the thickness δ and the gas pressure p is given by:

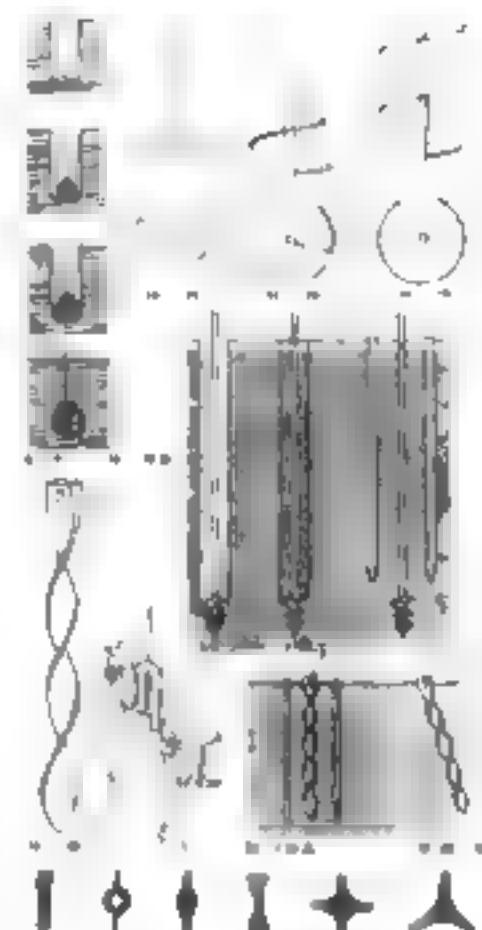
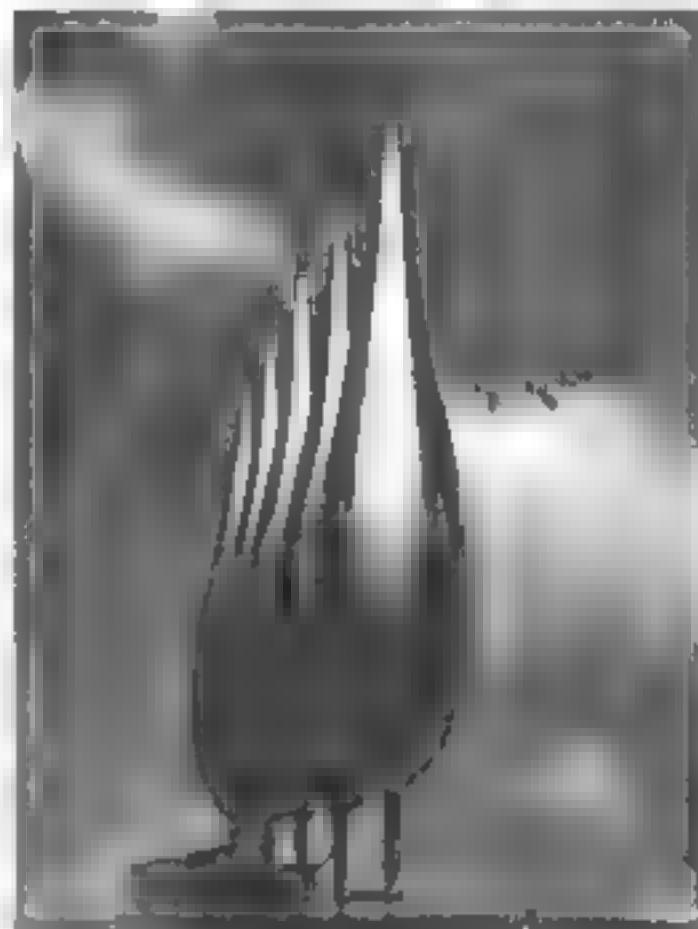
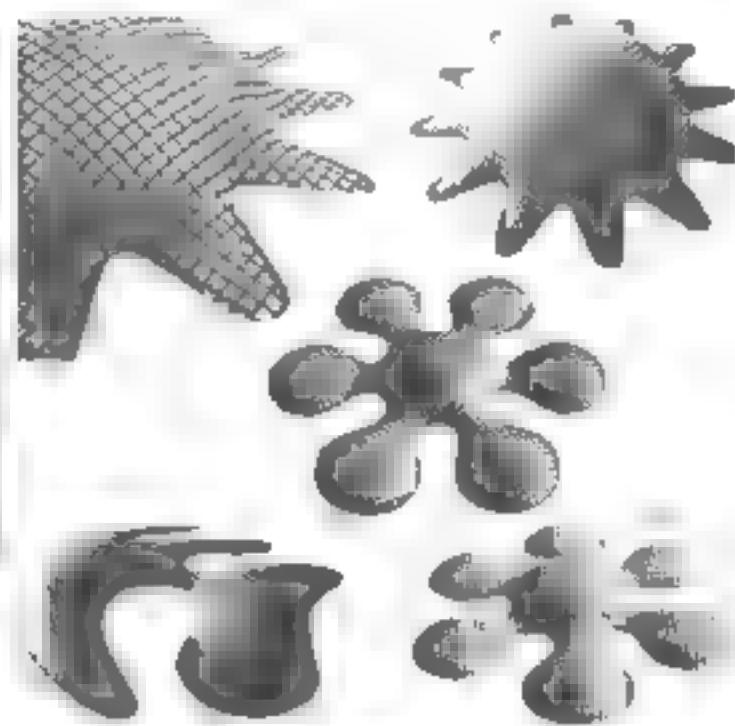
$$p = \frac{4\sigma}{r} + \frac{\rho g}{\delta}$$



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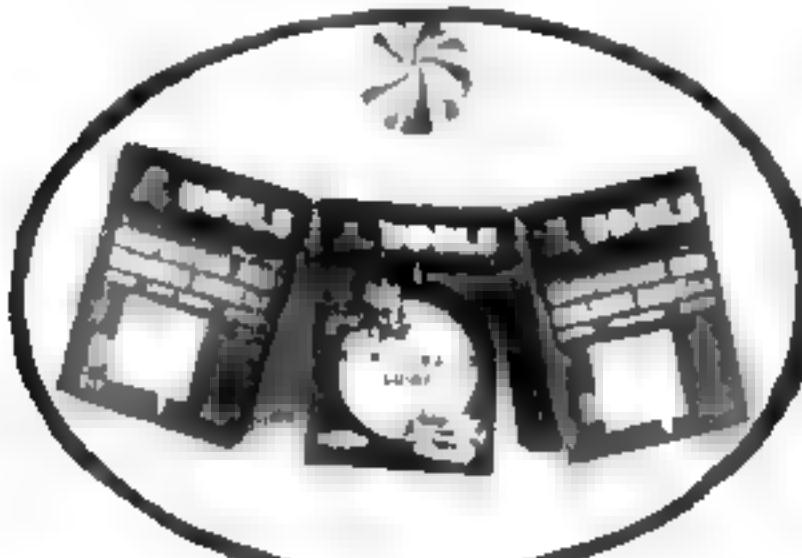


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Audel Guides

We've seen no series of individual technique publications more complete than the Audel books published by Howard Sams and Company. However, we're not proficient enough in this area to critique particular manuals against others in their field. Suggestions and reviews invited.

This part of the WHOLE EARTH CATALOG should be one



All the following prices are postpaid:

Automobile Guide (AUD) \$6.95
Home Appliance Service (AUD) 2 \$11.95
Motorcycle Guide (AUD) \$9.95
Television Repair & Manual (AUD) \$19.95
Handy Guide of General Electricity (AUD) 4 \$2.95
Truck and Auto Body Shop (AUD) \$19.95
Plumbing & Steam Pipefitter's Guide (AUD) 4 \$19.95
Building & Remodeling Manual (AUD) \$19.95
Carpentry and Related Trades (AUD) 4 \$19.95
Drilling in Metal (AUD) \$19.95
Welding Guide (AUD) \$19.95
Mathematics for Engineers and Scientists (AUD) 4 \$19.95
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Flight Manual (AUD) \$19.95
Street Motor Vehicles (AUD) \$19.95
Motorcycle Repair (AUD) \$19.95
Macmillan Library (AUD) \$19.95
Quotations & Answers for Home Office and (AUD) \$19.95
How to Draw (AUD) \$19.95
How to Paint (AUD) \$19.95
Practical Guide to Survival Photography (AUD) \$19.95
Primer (AUD) \$19.95

Alaskan mill

We've heard almost nothing about how good this one-man sawmill is, but we've heard plenty of statements of need for such an item. If you get one before we do, let us know about it.

The ALASKAN JR. is a lightweight and small lumbermaker. Drill holes in the body and settle it onto your log, then saw. This will be quick and easy, with a minimum of effort. Cut lumber wherever you need it, even in remote areas.

SIMPLY MILKIN' HIS ALASKAN JR. WITH CHAINSAW
No special tools or adjustments are required. It's as simple as changing the saw chain. Use any two - 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 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Village Technology

VITA (Volunteers for International Technical Assistance) is the only source of specific practical information on small group technology that we've found. But what a source! They have prepared a two-volume "Village Technology Handbook" for overseas use by the U.S. Agency for International Development that is ideal for rural international communities. This handbook now is in revision; the new edition should be available as of December 1968. Inquire for price.

Also VITA has a catalog of funky tools, "Village Technology Center Catalog," available free. For the items listed they will supply plans for making the tools, or rent or sell the items. Inquire for price.

VITA has a series of specific papers that cost very little (eg. 30¢). Titles include "Low-Cost Development of Small Water-Power Sites," "How to Salt Fish," "Making Building Blocks with CINVA-RAM," "Solar Cooker Construction Manual."

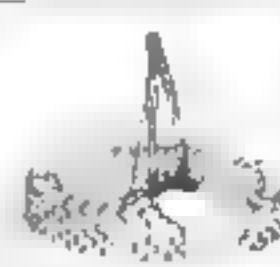


"BEEHIVE" BUILDING



Cat. No. M-103

CONSTRUCTION
JIG for
"BEEHIVE"
BUILDING



Cat. No. M-103A

The "BEEHIVE" RETROFIT, is named because of its shape. It should be well adapted for use in existing buildings (between beams, storage sheds, and granaries). It is cheap to build because the walls are only 1½" thick and come together to form the roof. Sun-dried bricks are suitable construction material to dry areas. stabilized earth or burned brick plus a covering of water proof plaster must be used in areas with high rainfall.

Building Instructions on p.

The construction of the "BEEHIVE" BUILDING is simple and can be done by unskilled people using the JIG shown. The JIG is designed to hold completely around while the fire end rests at a guide pole. By laying the blocks against the end of the guide pole, the fire end is kept perfectly square and the walls are brought in to form the "beehive" shape. Base and fire end only poles must be provided locally.

Diameter 12' - Length 36'

Wt. 30 lbs

WOODCUTTER'S CUTTING BENCH

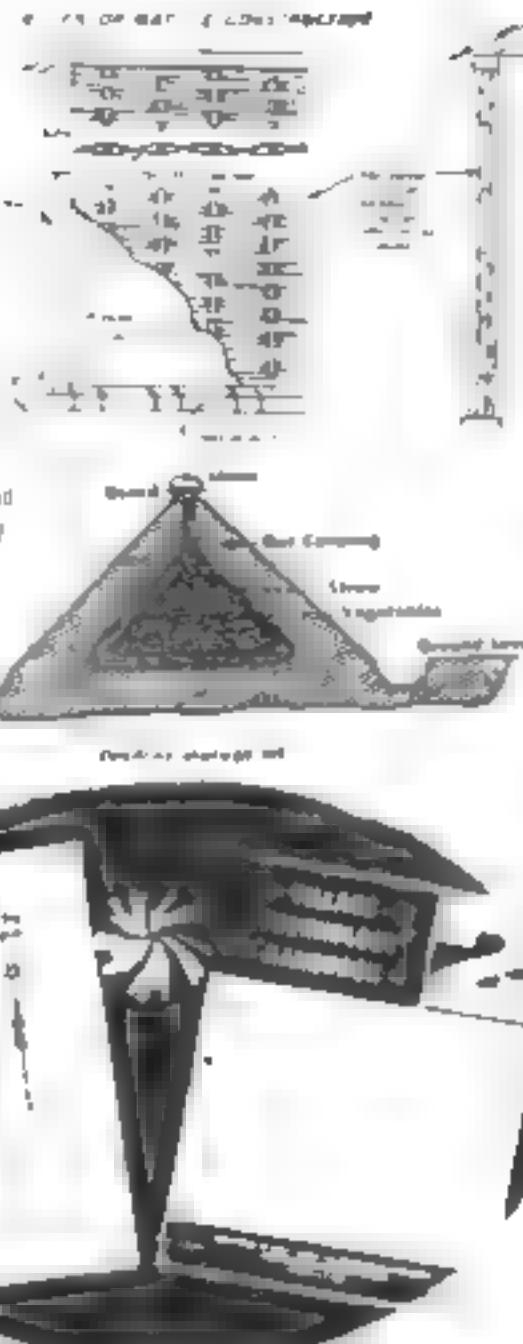
Cat. No. M-114

EVAPORATIVE FOOD COOLER

Cat. No. R-83

VITA SOLAR COOKER

Cat. No. M-73



Equipment for which suitable designs are being sought or developed for inclusion in future catalog supplements

1 Animal harness	26 Clothes wringer
2 Tractors	29 Chlorinator
3 Hardboard signs	30 Steri-fier
4 Hammers	31 Baby incubator
5 Seed planters	32 Baby scales
6 Grain drill	33 Automatic flush toilet
7 Cultivators	34 Solar food dryer
8 Dusters	35 Solar still
9 Sprayers	36 Soil mixer
10 Threshing machine	37 Sifting apparatus
11 Mincing machine	38 Concrete mixer
12 Seed cleaner	39 Concrete block machine
13 Rice huller and polisher	40 Concrete block forms, wood
14 Oil seed press	41 Wheelbarrows
15 Pore cast	42 Flash light projector
16 Rice drying equipment	43 Photo enlarger
17 Incubators	44 Bamboo science equipment
18 Brooders	45 Playground equipment
19 Peanut sheller	46 Arc welder
20 Pump	47 Spot welder
21 Deep well pump	48 Blacksmith's forge
22 Axial centrifugal pump	49 Sheet metal brake
23 Diaphragm pump	50 Sheet metal rolls
24 Hydraulic ram	51 Clin
25 Soil drilling equipment	52 Potter's wheel
26 Well casing forms	53 Bobbin winder
27 Sand heating stove	54 Spinning and weaving equipment

SOLAR WATER HEATER

ABSTRACT

1. To provide hot water primarily for washing. This is even more important in winter and particularly in poor countries.

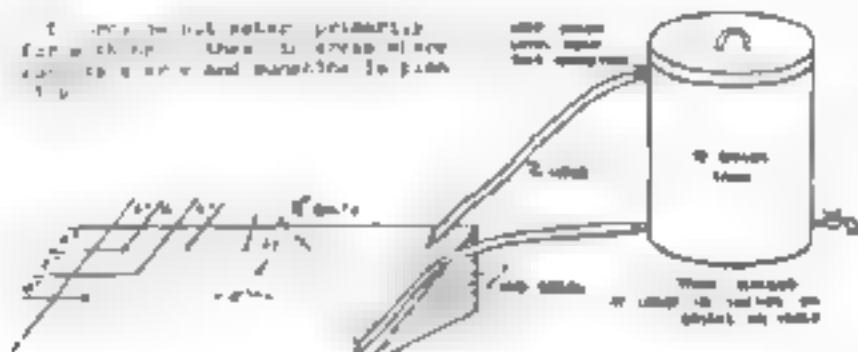
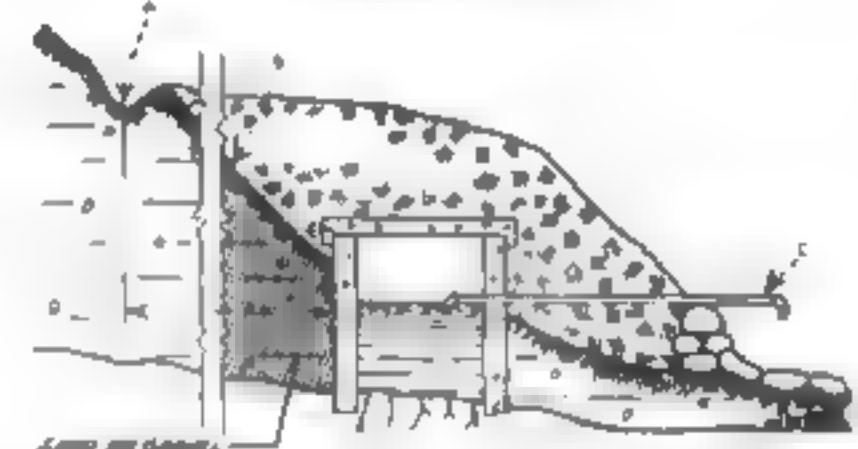


Fig. 31 PROPERLY PROTECTED SPRING (II)



B Protective drainage ditch to keep drainage water & soil discharge from spring
C Original slope and ground line
D Screened water pipe can discharge freely or be used in village or residence

This ingenious CUTTING BENCH has a vise at one end in which a block of wood could be held by pressing on a foot treadle--saving both hands free to operate tools. It is a very useful device which has application in a number of situations. One of its earlier uses was for holding wooden shingles while tapering with a draw-knife.

Size: 20" x 72" x 42"

Wt. 100 lbs.

In warm and dry climates, an EVAPORATIVE FOOD COOLER will extend the period for keeping food fresh and preserve leftovers. It is so to be so to keep crawling and flying insects away from food.

The COOLER operates on the principle of evaporation of water from the heavy cloth cover which is kept wet at all times by absorbing water from the pan in which the cooler stands.

It will not work in damp and humid areas.

Size: 17" x 13" x 37"

Wt. 26 lbs

The VITA SOLAR COOKER is designed to be sturdy, relatively easy to make, easy to repair and low in cost. It uses the principle of the Fresnel reflector which concentrates light and heat.

The COOKER--when used in areas having more than 2000 hours of sunshine per year--provides the heat equivalent to 500 watts (which will boil a quart of water in .2 to 15 minutes).

Larger models of the COOKER can be provided.

Size: 52" x 46" x 30"

Wt. 24 lbs

The Indian Tipi

Tipis are cheap and portable. To set one involves intimate familiarity with fire, earth, sky, and roundness. The canvas is a shadow play of branches by day, people by night. Depending on your Daddy's attitude about weather & tips as a rite, it's either a delight or a nuisance. Whichever you can appreciate the elegant design of a tipi and the completeness of the culture that produced it.

The Laubin's book is the only one on tipis but it is very good. All the information you need technical or traditional is here and the Laubins are interesting people.

Later we discovered that the idea of a ventilating cap underground is as logical as the way willow trees grow. A lesson learned. The best part

is a joy to be alone on days like this. You never come back to the tipi after a long ride or a walk in the mountains. The sun rises, the day goes, the moon rises, and when it is full at night, low through the smoke hole. The light white light in the tipi feelings similar to the glow of the sky. There is something deeply descriptive.



Laubin's book contains lots of etiquette for life in the tipi. If the door is open, the left is silly walking right. If the door is closed, then walk out or ram into the door so as to avoid an energetic entrance. A silly person goes out right to tell those outside. More fun was walking in. It was like walking upside down in a circle, or a party. If they went away, the door would be smoke traps by 10 AM. I'd be sitting there, feet in mouth and the door was not down, so it was a bit like walking on sand. The door did not close well thus, so kind of like a broken socket. A small strong pull of your would open it and ventilation would

be under way. Attaching peg ropes are illustrated and really impossible but easy and sturdy. On both sides of stamped armholes, insert a peg hole about 3/4 of an inch in from the inside & 10 of them are about as far as you move the edge of a saddle. Whether it's possible depends on the saddle being about 1.5 m. and. Double the rope in it, then tie a square knot or a clove hitch across the peg hole. Then pull the tipi until a separation. You can still do your alignment and straighten things out.

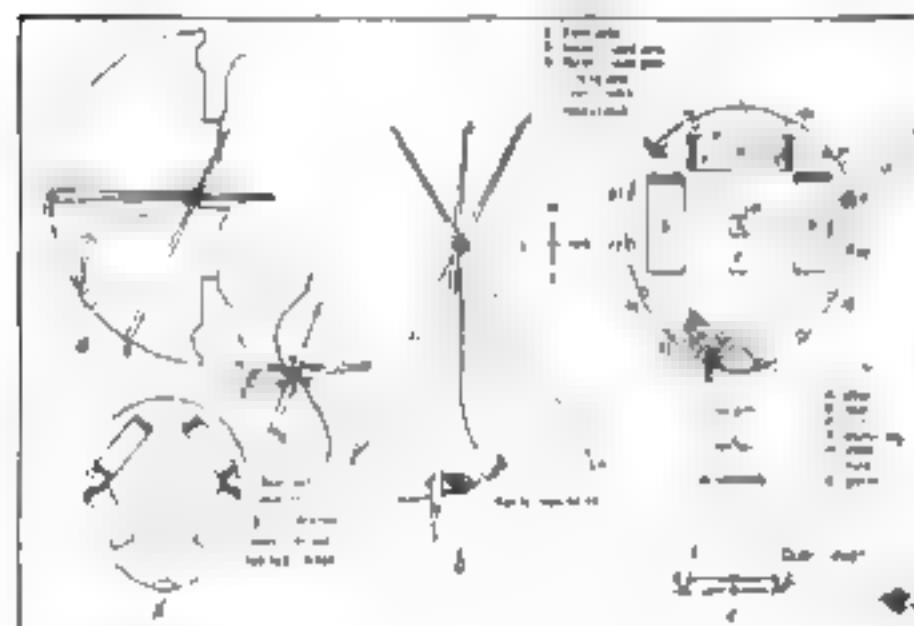


Diagram showing the parts of a tipi.

Tipis

We have word about three sources in the U.S. of early made tipis. And so far Cleveland Cedar is still the first best参考资料. Cleveland Cedar they did have 80' meters. Well, you will need it if wet, then as wet or cold.

If the following shipping weights are understood, shipping cost per item will ship free.

10 oz. white duck	10 oz. fabric treated white duck	
10' diameter	\$56	\$83
12' diameter	\$66	\$96
21' diameter	\$108	\$154

Foot is suitable for nomadic couple. Foot for overall family. 12' foot for extended family. 21' foot. Figurines treat as implements may required in some places. 10' is all green, blue, tan, purple & yellow. 12' are available. Colors are available. It's easier that way.

Mr. C. Laubin
1010 Alvarado
Alvarado, California 95606



Aladdin Kerosene Lamps

Coleman lamps are temple. They big and clunky and burn kerosene just like civilization.

Aladdin is the answer if you need good light and it's around. It is bright, silent and requires no pumping. It does require some bedding in liquid mantle from smoking up. It's like no burning toast!

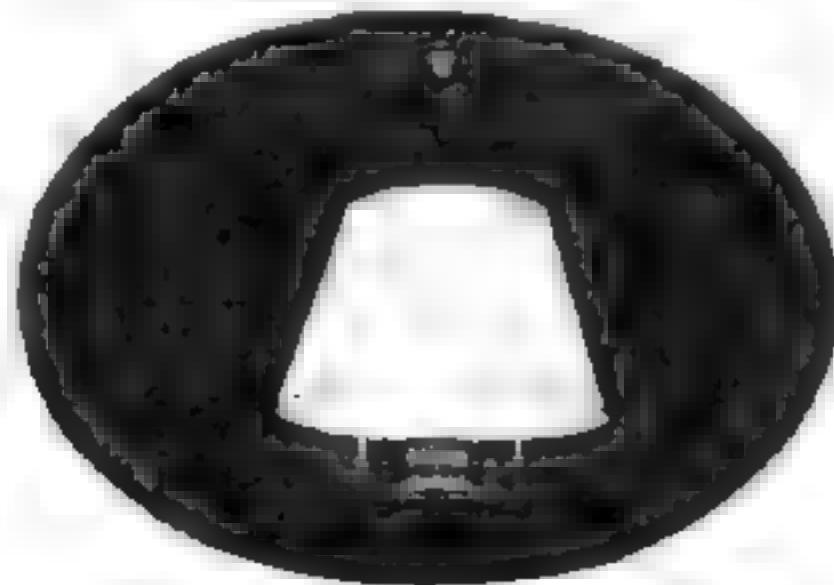
British made and efficiently designed the lamps are available in this country from

A	10" diameter
B	12" diameter
C	14" diameter

10" one of the Aladdin are rather ornate. The price on this one is \$15.97. 12" and 14" are similar and \$15.97

and #2210 Aladdin lamp \$22.63. Return address 52 E. 52nd Street New York, N.Y. 10022.

Or to the Aladdin stores.



Man's Role in Changing the Face of the Earth

This book of almost 1200 pages is the result of a major conference held in 1955, sponsored by the Wenner Gren Foundation for Anthropological Research. More than 50 scholars submitted papers, covering almost every imaginable point of view related to man's capacity to transform his physical environment. Though first presented nearly 15 years ago, the facts and insights are truly rewarding today. In my opinion, it is an unsurpassed achievement in assembling pertinent, insightful information of interest not only to serious students of the planet Earth, but to non-trained readers as well.

The three sections of the book are: I. "Retrospect," an historical background; II. "Process," methods and agencies involved in man's interactions with the land; and III. "Prospect," the effects and future implications of man's habitation in the earth. Some of the subjects covered within these sections include: man as the great force employed by man; origins and decline of woodlands, man and grass (sic) ecology; peasant life, harvests of the seas, ports, channels and coast lines, and sewerage (don't belittle sewerage—society is structured around it).

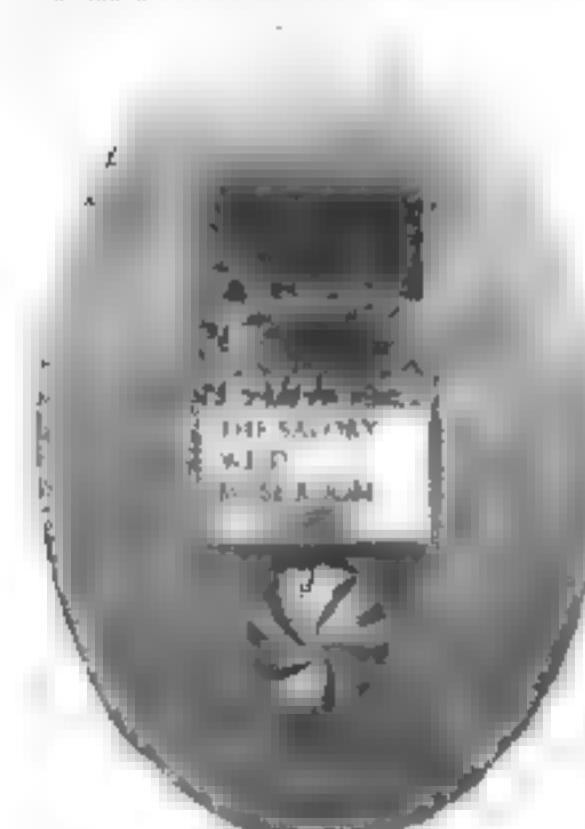


This book, although rather technical, is a must for anyone interested in geography and its impact on the environment. It is the joint effort of the Wenner-Gren Foundation for Anthropological Research and the University of Michigan Press. It is edited by John D. Jackson and John P. Harrington, with contributions from many other scholars. It is informative, yet not too technical. Professors of botany and environmental biologists have been tardy in recognizing that a significant number of the species we consider native are not native, but were introduced by man. For example, neither Kentucky bluegrass nor Canada bluegrass is native to those places, but came from Europe. The corn belt is a very obviously man-dominated landscape, but the casual observer might never realize that even the grass-covered and oak dotted stretches of hillside in the upland areas of New England were originally uninvaded from the Old World along with the Pilgrims.

Reviewed by Charles Raymond

Two Mushroom Books

Finding a strange, slimy, luminous colored growth on decaying wood is surprise and pleasure to转身 then experience into identifying it and possibly EATING it without a hitch! For the beginner one batch of mushrooms can occupy a whole day, from finding them, through washing for a good spore deposit and making a decision, to cooking them. An efficient guidebook is essential to avoid mistakes.



On the left is the original forest floor, with a bullet embedded in the tree trunk. On the right is a bullet embedded in the tree trunk. It is a very good illustration of how a bullet can penetrate a tree trunk and still remain intact.

From: The Savory Wild Mushroom

FIG. 104. A bullet in the trunk of a tree. The bullet has been driven into the trunk and remains intact.



Man's Role in Changing the Face of the Earth

John D. Jackson
John P. Harrington

\$15.00 postpaid

University of Michigan Press
Ann Arbor, Michigan 48106
AM 4-5210 RA

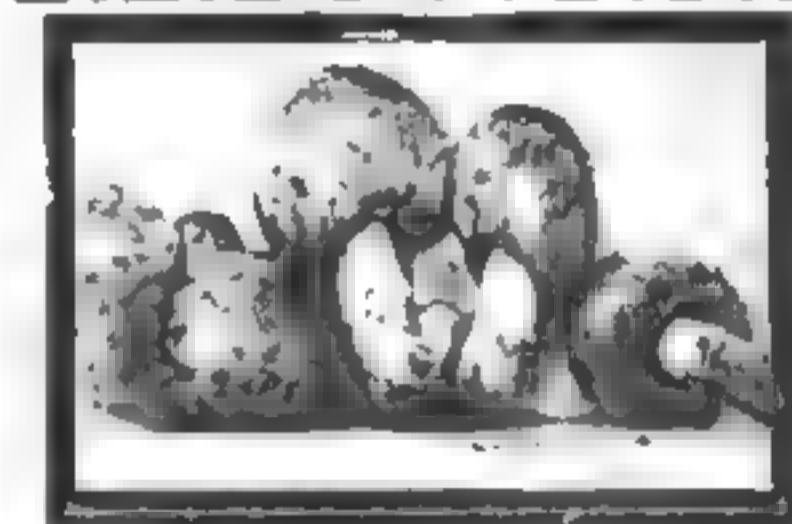


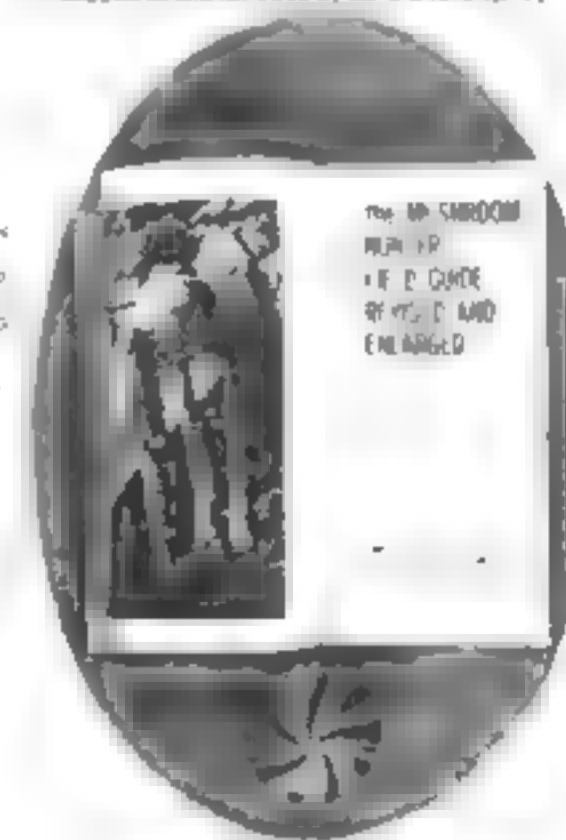
FIG. 104. WORMINGS AND MUSHROOMS (UNKNU. LAMP). Edible, but some people experience a peculiar type of intoxication from eating this species and afterward drinking an alcoholic beverage—intoxicants discovered from people in Michigan with this type of sensitivity.

(from: The Mushroom Hunter's Field Guide)

KEYS TO FAMILIES

- Cells turning black and "rotting" at maturity
Coprinaceae, in the family *Coprinaceae*
- Cells not liquefying at maturity
2
- Cells free from the stalk
3
- Cells attached to the stalk
6
- Sporc deposit chocolate brown to blackish and mature gills the same color; ring present on stalk
The *Agaricaceae*
- Sporc deposit and mature gills pale
4
- Sporc deposit pink to vinaceous or reddish-mottled plus about the same color
The *Umbelliferaceae* (Phellinus magnipes)
- Sporc deposit white greenish in one
5
- Volv present around base of stalk or remains of outer veil present on the cap
The *Amanitaceae*
- Volv absent; inner veil present; cap if scaly with the scales ingrown and usually of appressed hairs (fibriate)
Chlorophyllum and *Lemnaceigerous*
- Sporc deposit white or pale blue, yellow, or pinkish buff
7

(from: The Mushroom Hunter's Field Guide)



The Mushroom Hunter
Alexander H. Smith
RR#1, RR #1, MI 49060

\$6.95 postpaid

Michigan Dept.
of Natural Resources
Division of Game
and Fish
P.O. Box 32000
Lansing, Michigan 48906

The Savory Wild Mushroom
W.J. Smith
\$3.95 postpaid

Michigan Dept.
of Natural Resources
Division of Game
and Fish
P.O. Box 32000
Lansing, Michigan 48906

On the left is the original forest floor, with a bullet embedded in the tree trunk. On the right is a bullet embedded in the tree trunk. It is a very good illustration of how a bullet can penetrate a tree trunk and still remain intact.

From: The Savory Wild Mushroom

Organic Gardening

How to Grow Vegetables and Fruits by the Organic Method

In the month that I have had my copy of "How to Grow Vegetables and Fruits by the Organic Method," I have browsed it and referred to it for so many different reasons, out of so many different moods that I can't decide if its resting place on the shelf is among my other "how-to" books or somewhere between the poetry and books on oriental religion.

But, I shall worry about that problem when the time comes if it does. Right now I'm digging into it so often and with such delight it doesn't need a place on a shelf. I keep it in handy reach on the dining room table.

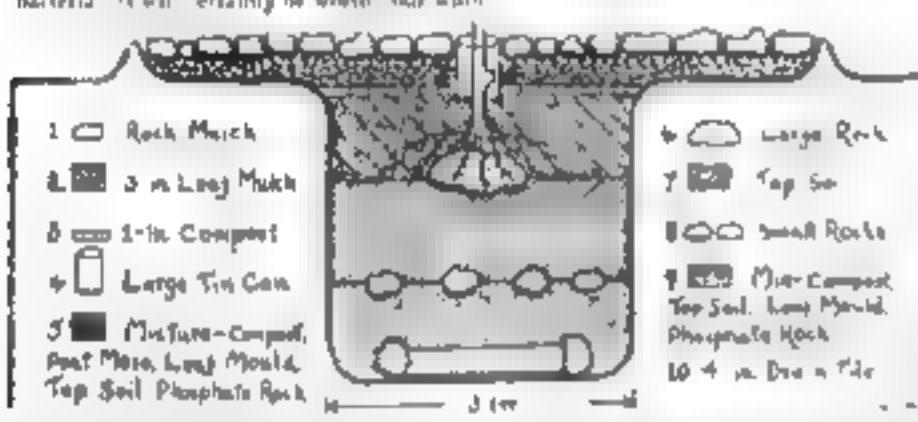
This book is the definitive manual on organic gardening. It is loaded with information, 550,000 words spread over 926 pages. It is wonderfully illustrated with pictures that are precise and useful, as well as pleasing to the eye. In a pleasant, relaxed prose style, the style of people who obviously have spent more time in the garden than in the library but who at the same time are so confident of what they're saying their words ring hard and true, the editors of this manual have gathered together every fact that one would need to know to become a successful organic gardener almost anywhere in the United States.

Fruitful Leaves

Vegetables to be cooked should be handled in the same manner as fresh vegetables. Gather immediately before using or else wash, dry and store in a cool place. If they are left at room temperature and in the light much of their vitamin B₆ and B₁ per cent or more of the vitamin C in raw fresh vegetables can be lost in a few hours.

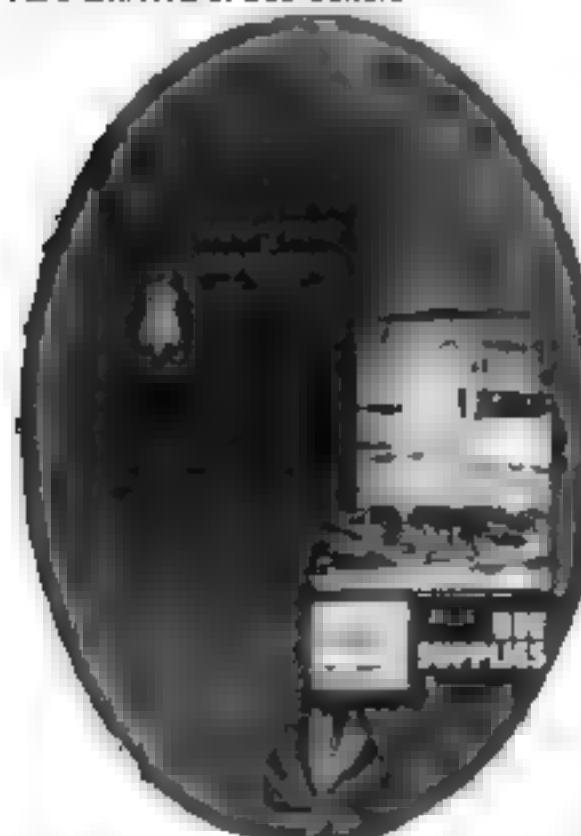
Invaluable Garden Lessons

If you are planning to grow an "earth" green or peanut in your garden, disengaging who and take time out to educate he after with the original heating harvested. It will certainly be worth your while.



Several "operator" get involved in this diagram. In addition to digging an extensive hole and adding the large cover stone, you also match with rocks and leaves and small adequate drainage.

ABC and XYZ of Bee Culture



ABC and XYZ of Bee Culture

A. P. \$1.
B. P. \$1.50
C. P. \$1.50
D. P. \$1.50

In cool weather so far as conditions will permit the time selected for handling the bees should be between 10 o'clock in the morning and 3 in the afternoon. In warm weather the operator should never stand in front of the entrance—always to one side. First, a little smoke should be blown in the entrance. The cover should be lifted gently and more smoke blown between the cover and the hive before the hive is opened. More par-

The first edition of this authoritative book was written in 1877 by Mr. A. I. Root. The current edition, the 33rd, is edited by Mr. R. Root, with the help of H. H. Root and J. A. Root. To get the picture

We've been told by several people that bee-keeping is one of the easiest ways to make extra money with little effort and a certain amount of down-home adventure. If you are what you eat, food from flowers is hard to beat.

From whatever standpoint—commercial, amateur or amateur scientific—this is a fascinating and useful book. The Roots also have a catalog of bee supplies, a beginner's book (*Starting Right With Bees*) and a magazine (*Gleanings in Bee Culture*, monthly). \$3.00 per year.

Copyright by Tuckerman, Zeta & Co.

MARKETING HONEY—The bee keeper with four or five colonies of bees will have no difficulty in selling honey to his neighbors. It soon becomes known that he has a few hives and the people in the vicinity seeing that they can buy "real honey" will go to the neighbor and pay good prices for sharing their own interests. If the honey is of first quality there is no trouble about selling the entire crop from the door way.

Starting Right With Bees Catalog Free

\$1.00 postpaid



Porter Bee Escape. The two V-shaped prongs are made of thin strips of brass and are so sensitive that they open easily to let the bees through at the apex. After the bees pass the spring, the points fly back to position, shutting off a return. If the prongs are bent or damaged they should be reset in 1/16-1/8-inch apart.

This book has another quality one does not always find in gardening manuals: it is well organized. The first part is about the soil; the second part is about vegetables, the third part is about fruit, and the closing pages are devoted to nut culture and herbs.

In Section one, there are chapters on how to improve the soil, make compost, start plants from seed, watering and irrigation, when to harvest, fall and winter gardening, controlling insects, greenhouse gardening.

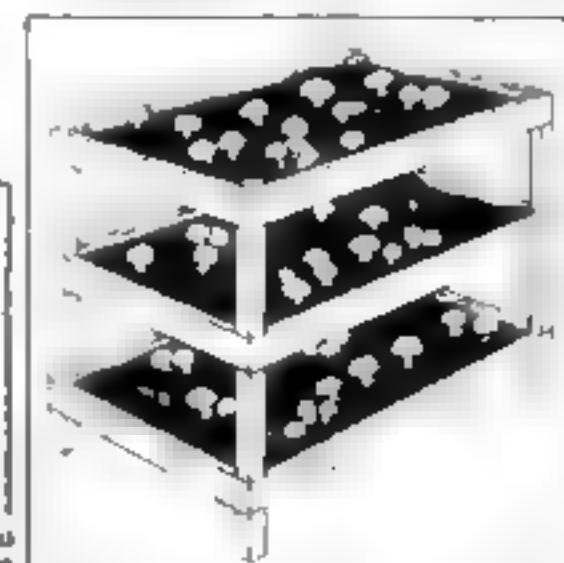
Section two looks closely at some 100 vegetables, giving a page to each vegetable, from onions through zucchini and what amounts to a brief essay that describes the history, vitamin content and how to raise each individual vegetable.

Another section does the same with some sixty varieties of North American fruit, from apples and apricots to watermelons and youngberries.

In addition, there are scores of charts and graphs that provide a complete planting guide for all the listed vegetables and fruits. Each geographical region of the United States and its peculiarities are accounted for. One table, for instance, is titled "Planning Guide for a Family of Five in Washington." Categories of information for gardening in Washington include planting dates, growing period, length of the garden row, amount of seed, depth to plant, distance between rows, and distance between plants.

The entire book is that detailed on every subject it takes up.

A Tier-Shelf Bed for Mushrooms



One need not, however, intend raising food for a family of five before this book can be useful to you, and a pleasure find it absolutely stimulating just as reading matter. It's pleasing in the way that thumbing through a catalog filled with delights you crave can be pleasing. Browsing in this book reminds one of fundamental things, of soil and water and air, and one's own involvement in the natural scheme of the world. The book is beautiful in the way that native crafts are beautiful: it's alive aesthetically at the same time that it's useful. That's more than one can say about most novels. I own very few books I'd rather have than this one. I recommend it to gardeners of all shapes and sizes, and to anyone people in general who enjoy reading books whose themes, images and metaphors are drawn from the world of nature.

(Reviewed by Stanley Norman)

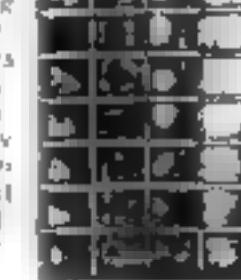
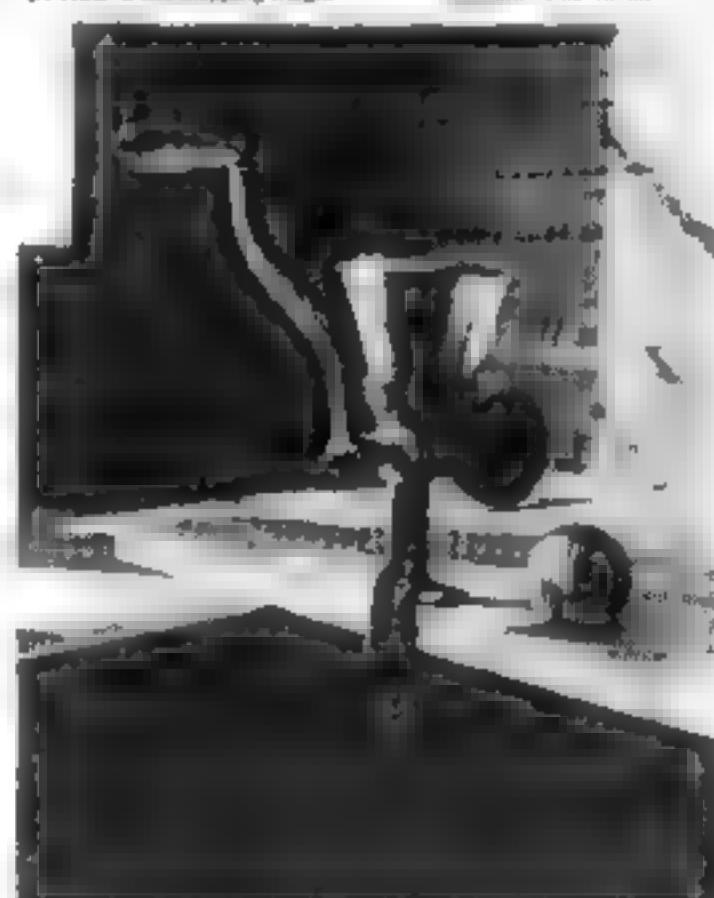
But we are more concerned here with the "hand aspect" which makes it most useful. It's a new book, not in a box, and so it's a pleasure to handle. Since we're going to build the shelves, it's better to keep the book at the level of hands. It won't be too heavy and though it may be hard to read, it may be a joy and inspiration, whatsoever one's the highlight family hobby in the group.

Universal Mill

I first ran across C. S. Bell's grinders at the Keweenaw Trading post between the Hopi and Navajo reservations. Then found one in the VITA catalog: "grinds coffee, corn, soy beans, sugar, millet, flour, tortillas or ampal, garbanzo, beans, peppers, spices, cocoa, peanuts, wheat, meat, salt, oats, buckwheat, bananas, and like products (hot or dry)." So we ordered one and here it comes, with all the grace and precision of a fire hydrant—I had to fit the main axle for an hour to get it into the handle. It's fire hydrant red too. But sure enough a grand stuff and doesn't cost much. C. S. Bell also has power driven grinders and a hand corn sheller.

La Campante

\$11.50, 8 lbs. shipping weight



For
T. &
Me
Root Company
P.O. Box 256

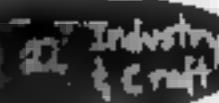


How to Grow
Vegetables
and Fruits
by the
Organic Method

ed. J.C. Rodale
and staff
1801 826 pp
\$10.10
postpaid

Shelter
• 21
In
Rural Home Inc.
Montgomery
County
Md.
1804B
ILL.
EARTH
ANALOG

The Way Things Work



The Way Things Work
by Steve Parker
\$8.95 paperback

One book for the bathroom we've seen. Now let's think about knowledge of technology. Each two pages of the book is a branch of technology, a bunch of diagrams, and the big ones little gadgets and processes you can think of that would relate to data processing. If you develop this kind of mind the interesting to take this book back to the automotive company and know if under some circumstances. Now think about common applications characteristics.

Introduction to Engineering Design

What if a whole nation exists on design? — the Kingdom of Norway. This book is based on the King Alfonso Stav-Eugen's collection of his designs of what he thinks is the best selling vehicles and how they work. Then got up and hurriedly wrote a letter to a friend about the book and its author. Asked Stav-Eugen to mark out some real quotes and pictures and he would. I think anyone who you ever if it deserved. Didn't get a copy.

Contents of the book include: The engineering Problem Statement, Design Phase Initialization, Information and the Need Analysis, Identification of the Problems, Information Sources, Synthesis of Alternatives, Evaluation and Order of Magnitude Analysis, Engineering and Model, Preliminary Design, Engineering Problem Modeling, The Knob Model, Conception, Representation, Final, such as the Criterion Function, Checking of Engineering Design, Optimization, etc. etc.



Fig. 7.4 Possible water channel designs
Water Supply project for mountain cabin

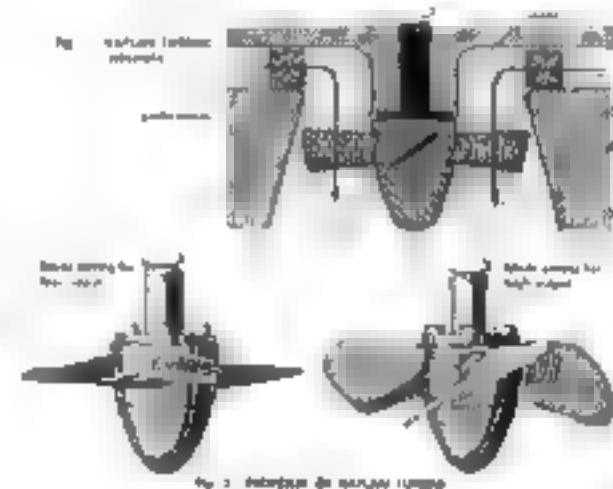
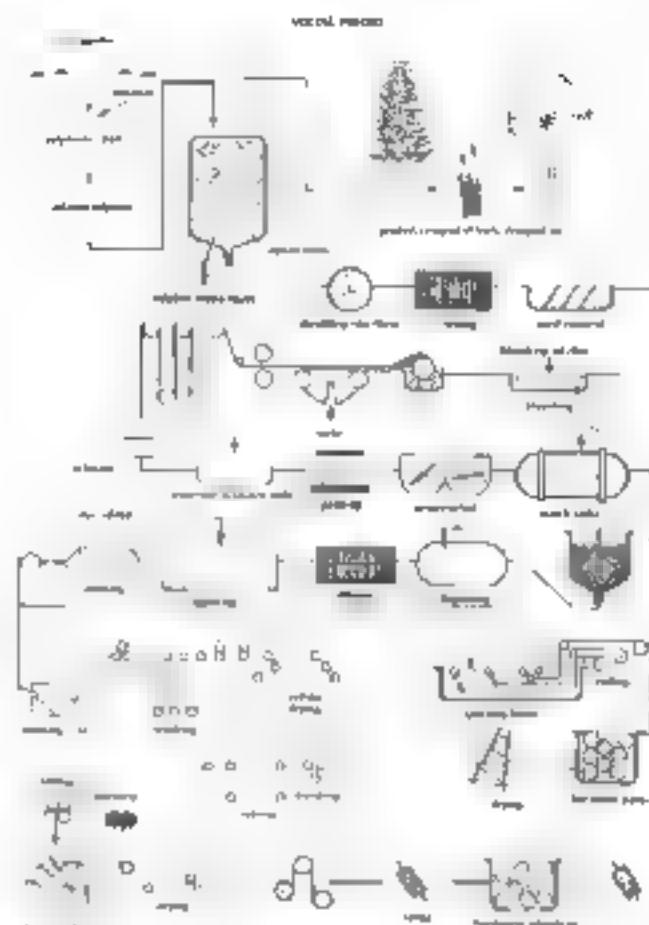
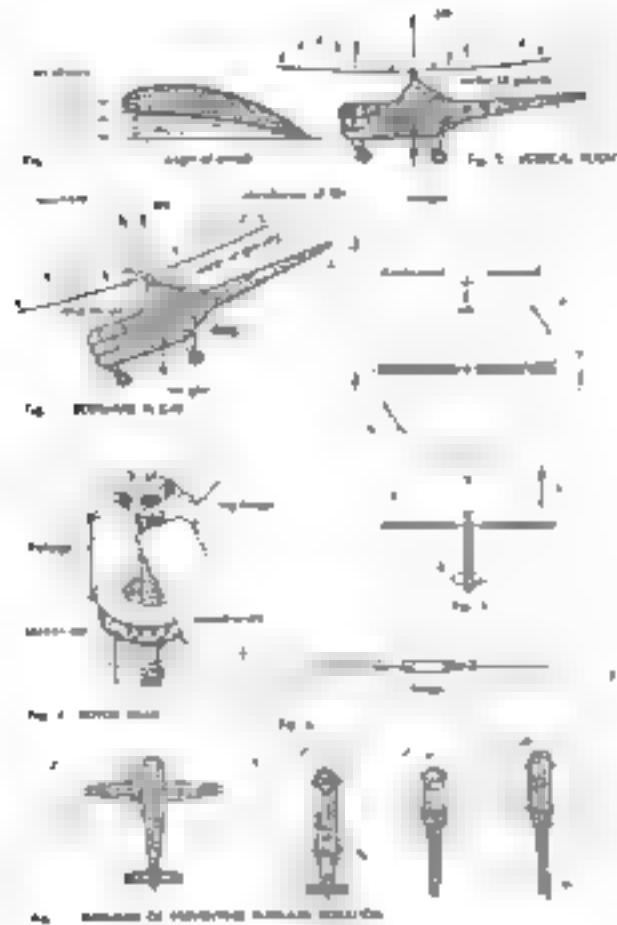
WATER SUPPLY FOR MOUNTAIN CAMP

From the stream a suitable lot of land to help we can bring water from a stream, we can also take out a 50 gal. or 60 gal. plastic water tank for our water needs. The water A source supply point is 60 ft. away upstream guaranteeing other things a 100% continuous water supply. Our problem is transport. Should we use pipes or pump tank first, buried in the ground or a wooden frame or float? See figure 4

As we think about this we discover the open stream in the general area is too easily contaminated. The pipe could be laid on the ground, and the wood frames could be suspended from tree trunks and basically covered as shown by the dotted lines in the diagram. Thus we have two reasonable ways of doing this job, the questions now concern cost and convenience.

Next we check the sizes needed. If we wanted the 50 gal tank filled in 5 min. we would need a flow of about 4 gal/min. This is a stream of water about as big as a person's finger when the water is flowing two feet per second, as shown by the equation in the footnotes deriving the cross sectional area A of the stream.

This area would require a pipe one inch in diameter. If we were using the wood pipe channels we need ten boards each about three inches wide to avoid splashing over or one board foot per channel (one 12×16 in. board length). A board foot is one square foot of wood, one inch or less thick.



July 23d 03
ignition system



Introduction to Engineering Design

Thomas J. Woodell
1966; 434 pp.

\$8.95 paperback

Editor:
H. George H. Book Company
Title: Introduction to Engineering Design
Author: Thomas J. Woodell
Year: 1966
Pages: 434
Format: Paperback
ISBN: 0-8306-0021-1
Price: \$8.95
Availability: In stock

Fig. 6.3 A sketch that changed automobile ignition. (Courtesy General Motors Corp.)

Now we need to do the analysis. The most common reference is the book "Introduction to Engineering Design" by Thomas J. Woodell. It is a good book for the student to learn what is involved in engineering design. It is also a good book for the professional engineer to learn what is involved in engineering design.

Woodell's book is a good book for the student to learn what is involved in engineering design.

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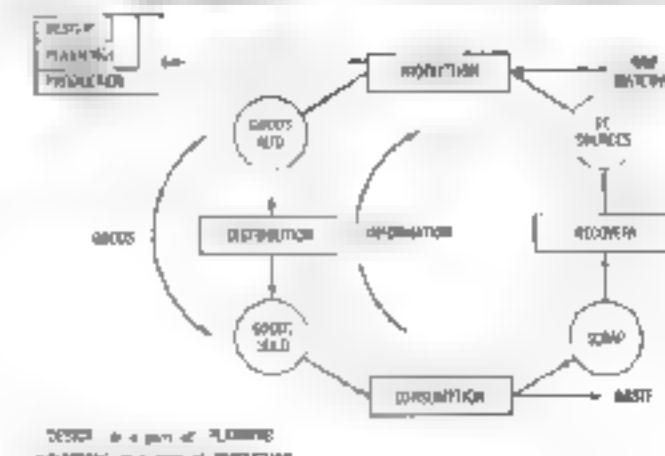


Fig. 8.7 The production-consumption cycle showing the place of engineering design

The Measure of Man

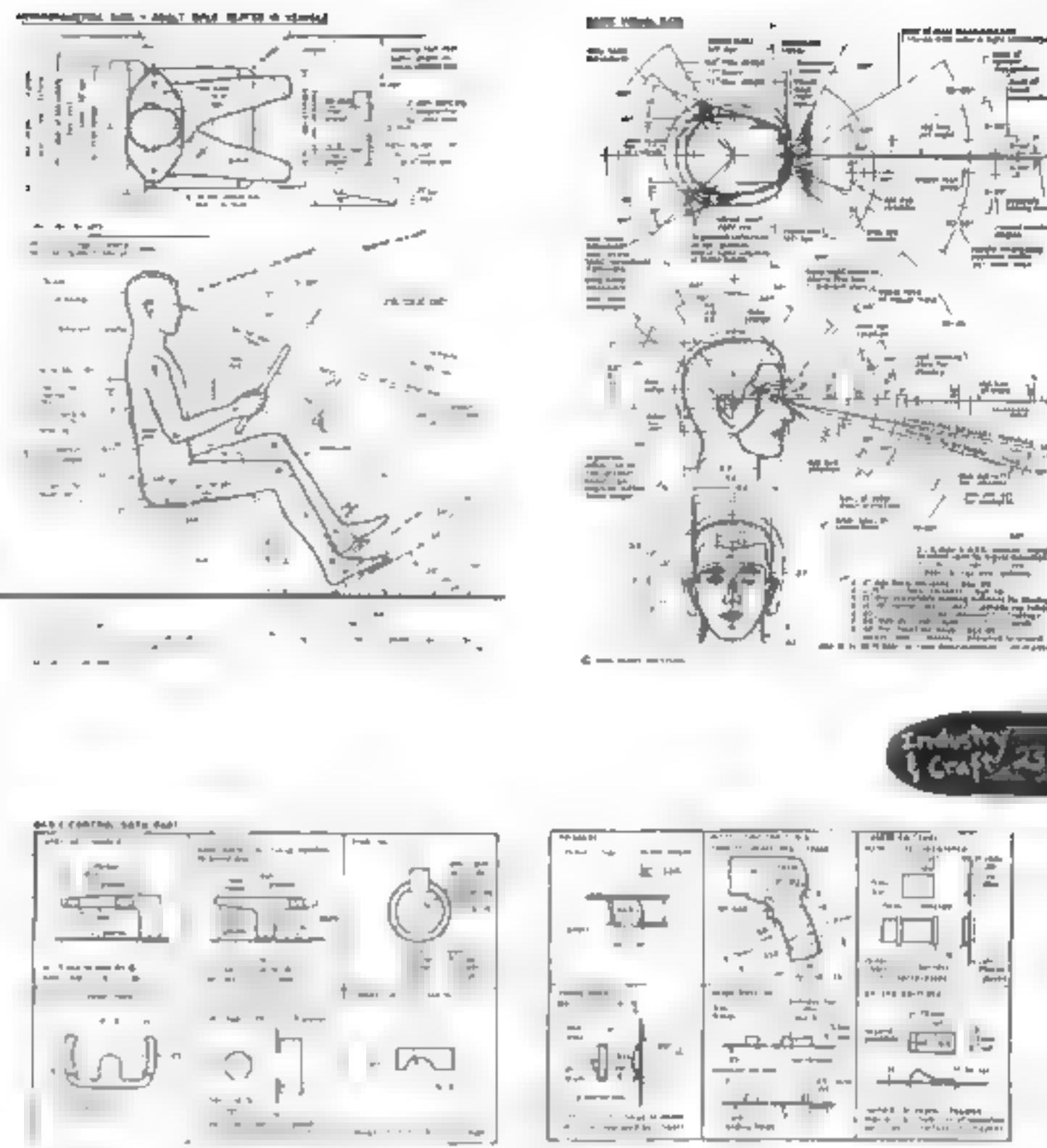
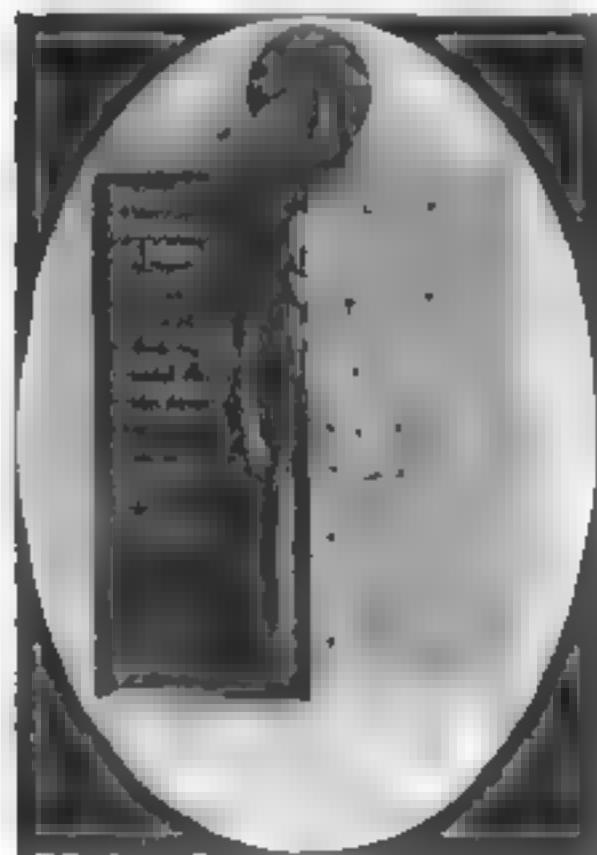
If you're designing something for use by people, you don't have to start from scratch figuring out what size people are so that your thing will fit. Henry Farny has done most of it for you: measurements, lengths and angles of standing and sitting men, women, and children; visual data; hand requirements; display and control shapes and ratios; openings, environmental tolerance zones; reaction times; growth statistics; etc. It's all assembled in thirty 9" x 12" charts, plus 2 life-sizers, and some sex. Handy item.

The Measure of Man Human Factors in Design

Henry Farny

\$12.50 postpaid from

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New Scientist is the best evidence we've seen that there are new scientists in the world, young, politically aware, irreverent, active. Every week here's yet another issue of *New Scientist*. If you get behind reading it's hopeless, full of actual news, unique and grasp of the research world. The magazine is British, so you get perspective on a lot of accomplishments (farther northwards), and report of worldwide activities unreported in most American journals. The *Ariadne* column is a gem.

(Suggested by Steve Baer)

A device with more than a little of the Daedalus' major about it was unveiled at Stanford University, California, last week. As part of his final year of a mechanical engineering course, students were asked to build a machine capable of climbing a flight of stairs. One student's favorite was a robot which steered on the top wheel, fired a small cannon at the lookers, waved a Nazi flag, gave a rousing rendition of "Deutschland über Alles", gave the Nazi salute and then New Zealand hits. If all else fails, a million-dollar submersible await. A young engineer at Bell Telephone Laboratories

Cutting The Cord Complicates Afterbirth

Obstetricians, albeit with the best will in the world, have for about 100 years been meddling unnecessarily with the process of childbirth, and possibly even causing avoidable complications. Dr M. S. Botha, a South African obstetrician, suggests that by cutting the cord as soon as the baby is born, they may cut the infant of about 90 millilitres of blood, no small amount in a new-born baby. And by tying the cord to the maternal side, before the placenta is delivered, obstetricians may be inhibiting nutrition of the placenta (afterbirth) and causing postpartum haemorrhage.



Cocoons for the millions

House shells of foamed epoxy resin can be built up from the bare earth in a matter of hours using a simple travelling mould controlled by two men. The cheapness and speed of erection offer a realistic approach to the world-wide problem of building low-cost housing

Scientific American

\$8.00 per year, U.S.A. Canada

Good Old Scientific American

1960



Longer, stronger, taller

A new machine method for ploughing is helping farmers in the USA to increase their profits by increasing the time actually spent in preparing the land with plow and harrow. In northern corn regions with sheet-growing seasons, the "no-till" ploughing machines reduce maximum growing time and greater yields per acre. In southern farmlands, after the early-summer harvest of winter-grown grains, the machines allow a second crop to be planted quickly amid the harvested stubble thus guaranteeing two crops a year.

Reporting on the progress of no-tillage farming at the annual meeting of the American Society of Agricultural Engineers in June, W. R. McClure of the University of Kentucky stated that the no-till sowing technique had become popular in his area soon after modified corn planters became available in 1967, capable of sowing corn and soybeans in harvested stubble and even in unbroken sod. In addition to the time and money saved by omitting cultivation, Mr. McClure added, the no-tillage system affords superior erosion control and, because it leaves natural mulch undisturbed, is a less wasteful of soil moisture than plowing and harrowing are. McClure and his associates at the university conclude that Kentucky farmers could eventually increase their earnings by more than \$50 million a year by adopting the practice.

We have examined the no-till claims from a number of different sources and have found that the Newark and Detroit survey data do not support it. The claim is not the poorest of the poor. They are not the hard-core unemployed. They are not the least educated. They are not unassimilated migrants or newcomers to the city. There is no evidence that they have serious personality disturbances or are deviant in their social behavior. They do not have a different set of values. None of these factors sets the no-till from the rest of the community in a way that justifies condemning him a person's failure or an irresponsible person. In fact, on some of the "poorest" items such as education and occupation, he appears the richer compared favorably with the non-tillers who even surpasses him.

Industry & Craft

1960

<p

Direct Use of the Sun's Energy

The best book on Solar Energy that I know. Any curious and intelligent person can learn a great deal about our planet and ourselves by reading this book about ways of using sunlight. There are many numbers in the book but the math never goes beyond 8th grade arithmetic. The book is clear and simple whether talking about heating water.

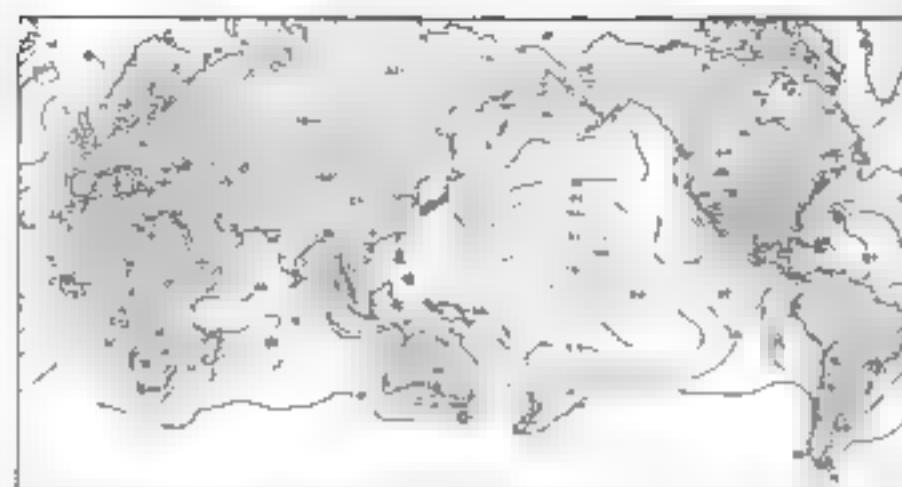
For general domestic use of hot water for bathing and washing, at a temperature of 50° F., it is estimated that each and every person needs 100 gallons per year. In many cases, however, these requirements are far less. For example, there is a solar water heater which has an area of 8' x 16' feet, and not much land is required. It uses a tank of 100 gallons and a solar absorber which

uses photochemical reactions.

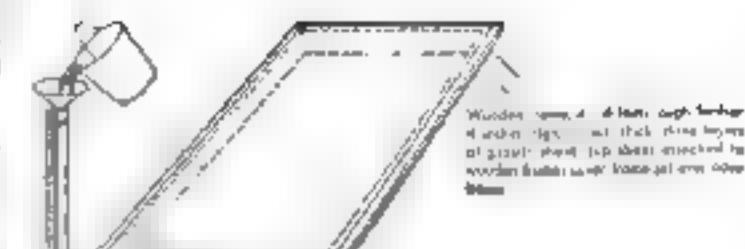
The small illustration of Figure 20 shows the basic absorber of the solar heater. It consists of a rectangular trough holding all the glass bottles which are used for absorbing and collecting heat. You also notice an inlet during the exposure to light.

Read the book at Greyhound bus in Texas for years ago and it has changed my life and my way of thinking.

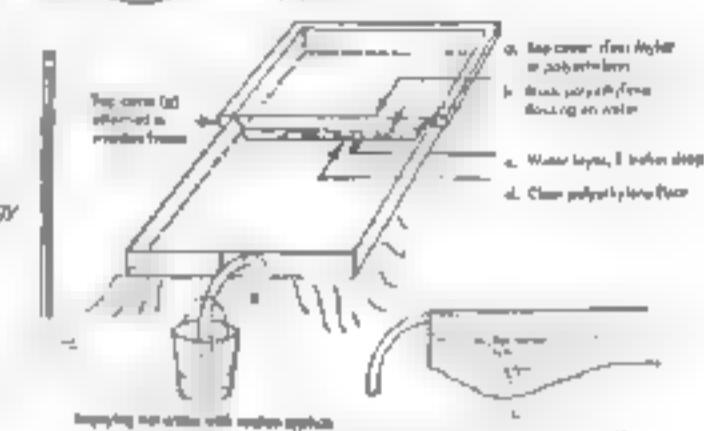
HIGHWAY BY STEVE BURR



World map showing the areas of the world where the amount of sun per year averages with per cent from 0 to 2000.



Wooden frame, 4' x 10' x 4' high
Glass bottles - not thick glass layers of glass sheet top sheet enclosed in wooden frame with base set over open flame.



a. Top cover glass sheet or polyethylene
b. Black polyethylene floating on water
c. Water layer, 1 inch deep
d. Clear polyethylene layer

Supplying water with water pump

Water flowing passes oil and glass

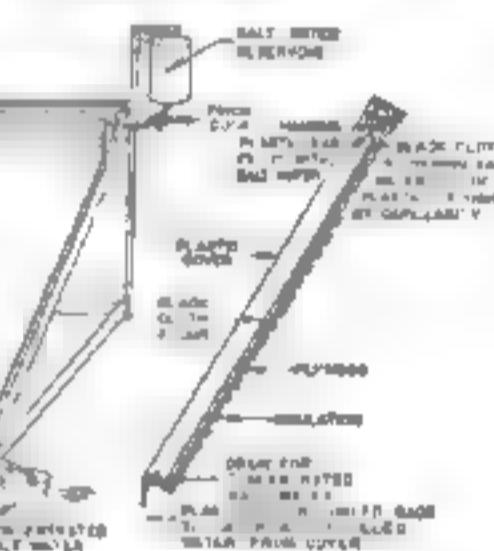


Fig. 20. A simple solar water heater.

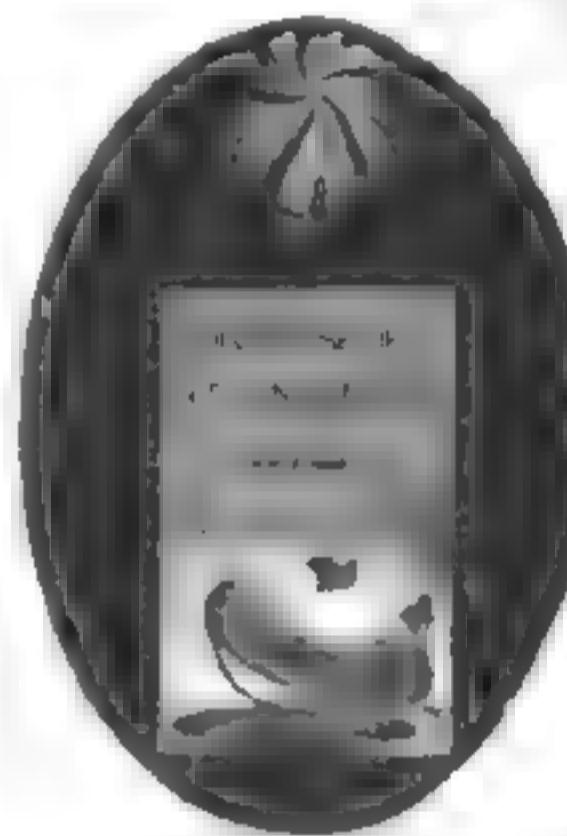


Fig. 20. Solar water heater.

Structure, Form and Movement

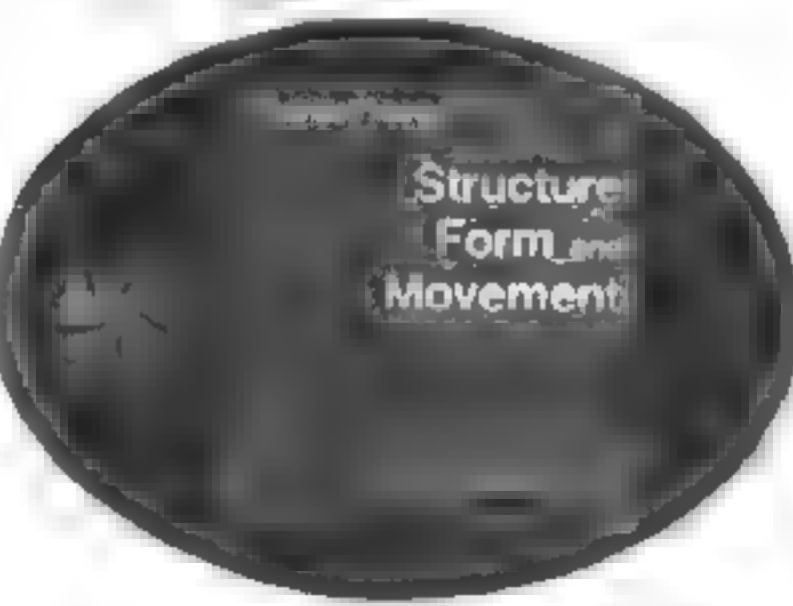
The usual procedure is that FIG. 2 comes up with a new procedure - a new method for solving problems and then with a "aha" says "I now know procedures did not do anything for that in Zenon or other schools". And everybody says "My, my, and hooray".

How to tell who is right is hard to understand the older you are. It is more fun to have some kind of knowledge. This approach now has a name: "fun". A book by that title that is around is terrible.

This book may be too expensive for its stated usefulness, but a thoroughly displayed the approach that research may take if bugs, birds, fish, etc. for yield in navigation, flight, streamlining, etc.

Structure, Form and Movement

Author: Steve Burr
1863-3962, pp. 44
Establishing Company
Address:
Box 2000
2000 N. Dixie Dr.
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86	Flight	95	Flight
87	Flight	96	Flight
88	Flight	97	Flight
89	Flight	98	Flight
90	Flight	99	Flight
91	Flight	100	Flight



Golden eagle. Leaping off. Legs flexed at left, extended at right.

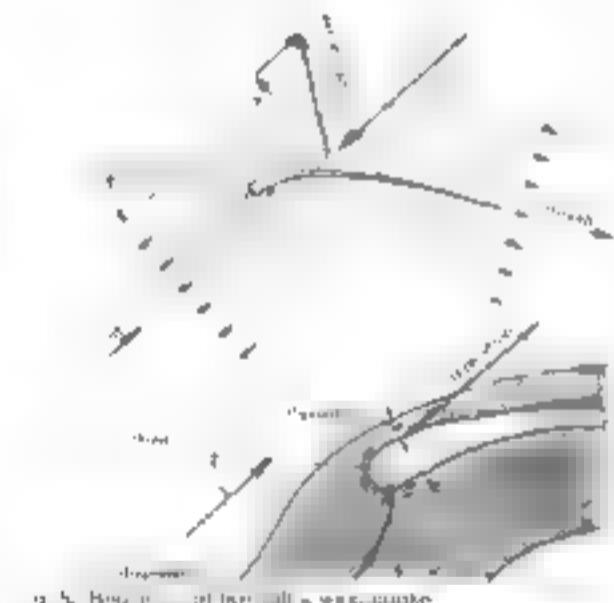


Fig. 21. Bird in flight with wings, curved downwards. When it is in flight, it is always in a curve. Below the starting point, now around the leading edge.

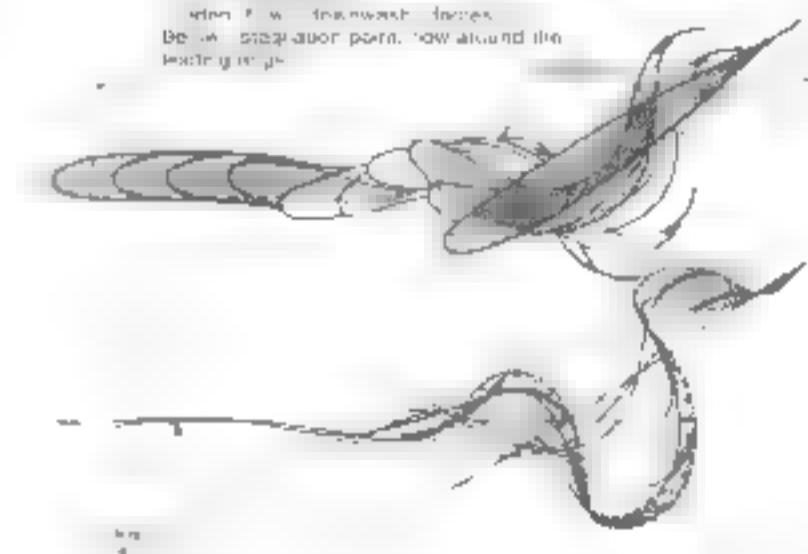


Fig. 22. Flying up. Flying up. In the same direction. The progress of movement according to motion picture record. Bottom, fin marks.

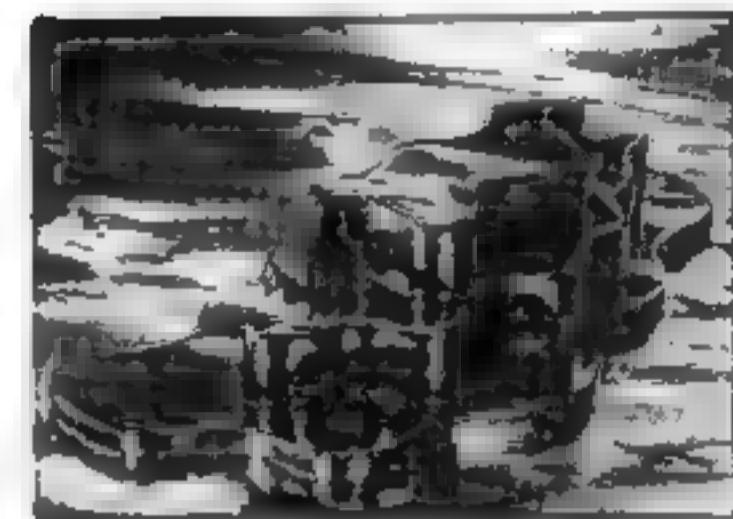
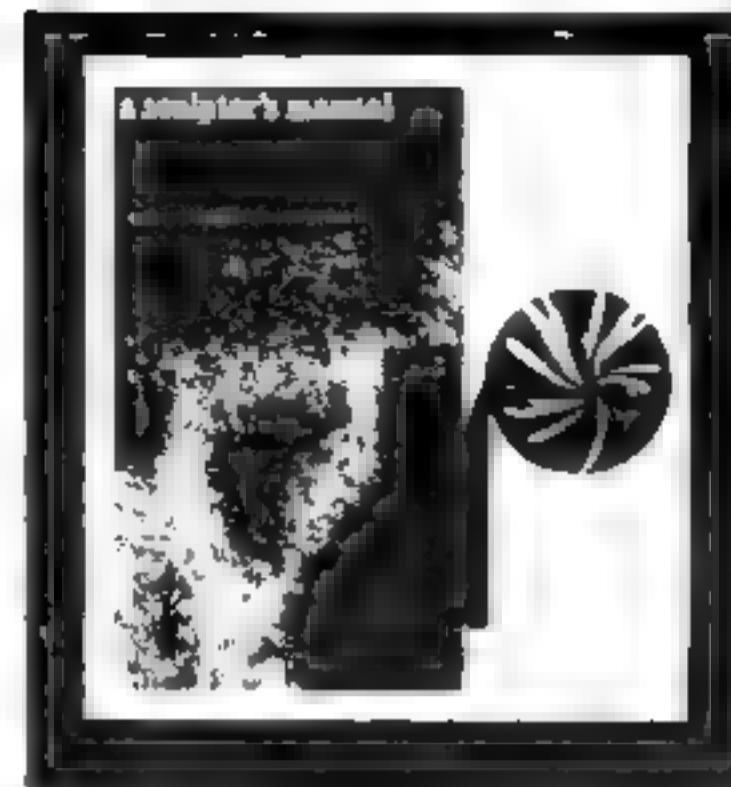
A Sculptor's Manual

This book is a well organized presentation of the basic processes behind sculpture. Detailed processes are made to seem simple, but not oversimplified; it remains obvious that a good deal of patience will be required to cast a bronze by the lost wax method. People who do not know what technique will suit them best and who want a solid feeling from which to experiment will find *A Sculptor's Manual* most useful. It encourages you to attempt the forms you have imagined, by showing you how.

The nine chapters cover plaster usage, laundry practice, flame and electric welding, plastics cement, stone and wood, repetition carving, general construction, finishing, and surface coatings. Cross referencing, a glossary, and 27 diagrams make the book all the more usable. British sculptors will find a buyer's guide at the end of each chapter. Americans are referred to the yellow pages, Bernard Klein's "Guide to American Directories" and the "Thomas Register" (see p. 23 of the CATALOG) to find sources for materials.

At the back of the book is a section of 22 photos of finished sculpture just enough to intrigues you without being pushy.

(Reviewed by Jim Bonner)



Federico Pachoz (right), 1967
Bronze-cast 6'6" x 4'10" by M. D. by S. J. Harman (left) 1968 Biennale London (photo Howard studio)

A Sculptor's Manual
by Jim Bonner
\$8.50

\$8.50 postage

Postage & Handling \$1.00

Item # 10000

Postage & Handling
\$1.00

Item # 10000

Does any reader...
...have a thorough...
...book...
...on the techniques...
...up to date...
...of making...
...etc?

The development of meshed has been continued since the end of the last century. In 1889, Deacon invented a wire-meshing machine which made it possible to make a wire-meshed plate for a gill net quite inexpensively.

Today there is the widest range of thermosetting insulation materials which can handle temperatures up to 1000° F. and withstand public. However, the wire-meshed plates are still used. They remain competitive and are produced in one-way or two-

directionally. They are an ideal insulation material for the insulation of roofs, walls, floors, etc. They are also used for insulation of pipes, tanks, etc. They are also used for insulation of electrical equipment, such as resistors, capacitors, etc. They are also used for insulation of electrical equipment, such as resistors, capacitors, etc.

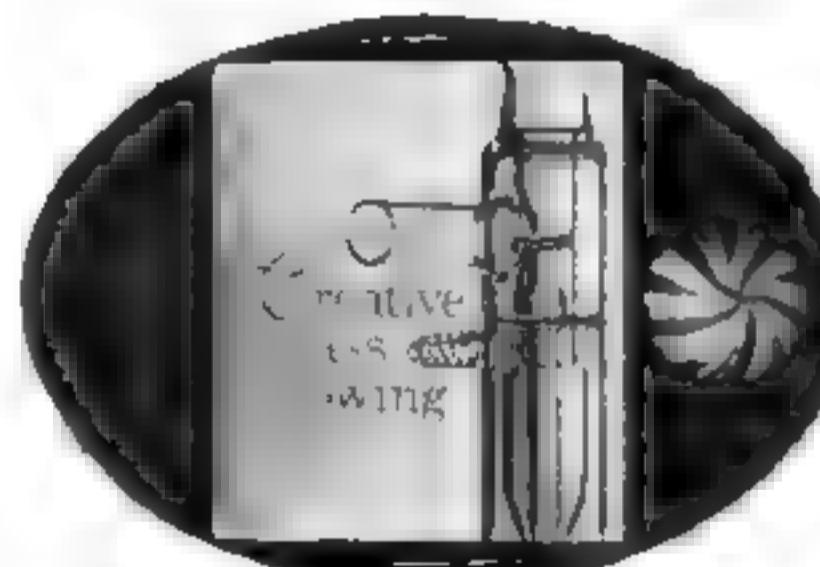
Creative Glass Blowing

This well-illustrated and lucidly written book begins with the statement: Any one can learn to blow glass. To a large extent the authors, one of whom is a professional glass blower, succeed in making that statement believable. However, the first 10 pages are concerned with the tools of the glass blower and I found myself wondering: Yes, but can anyone learn to be a pipe-fitter, metal worker, carpenter, and electrician? If you can do those things, there's little doubt that this book (and several hundred dollars worth of tools and related supplies), will enable you to blow glass... probably creatively.

Don't expect to take up glass blowing casually with just this book, but if it is a hobby to which you can commit yourself seriously this book would be an excellent investment for starters.

There is a page at the end that lists sources of tools and materials. Unfortunately, there are only a few suppliers mentioned, all of whom are in the East. Aussies, we Westerners need a special supplement, obviously.

(Reviewed by Richard Raymond)



Creative Glass Blowing
by Jim Harmer and L. Stang
Item # 10000

\$8.00 postage

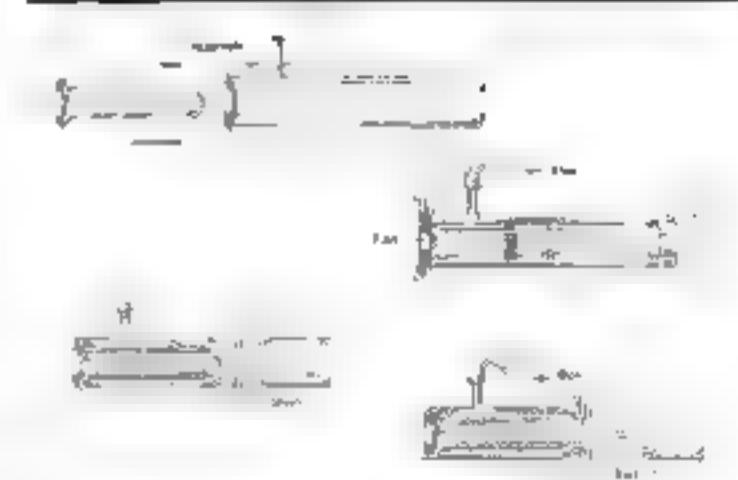
Postage & Handling

\$1.00

Item # 10000

Postage & Handling
\$1.00

Item # 10000



Here, then, is the first skill you must develop in the course of becoming a glass blower: the knack of rotating hot glass at a rate that precisely counteracts the force of gravity. The trick is not difficult to master if you follow a few simple rules. First, never soften more glass than you need for making a desired form. If you intend to impart a rounded shape to the end of a rod, heat only the tip. Second, never soften the material more than necessary to accomplish your objective. Obviously, will give a wider to control than many places. Watch the work as it softens and changes form. Alter a position in the line to take advantage of gravity or to offset the effect of gravity as the case may be. This is accomplished by rotating the work.

Buckskin

This is one of the best deals in the CATALOG. Buckskin in downtown San Francisco costs \$1.50 a square foot. Leather Tanning offers the same material for 90¢sq.ft. postpaid anywhere in the U.S. The buckskin is chrome-tanned, which makes it more resistant to the effects of water than oil-tanned skin. The company also carries cowhide, elk skin, hair-on calf etc. Orders for a dozen or more skins get 10¢sq.ft. discount. Buckskins are generally 10-12 sq. ft. in size. calf skins smaller. Elk skins larger. The shirt was made of two 12 sq. ft. buckskins.



Buckelur

Bucaction
\$30 sq ft installed
Hard non-call dropped
\$180 sq ft installed
Hard non-call lunchroom
\$180 sq ft installed

Alaris Company
418-6
Liber - different 34



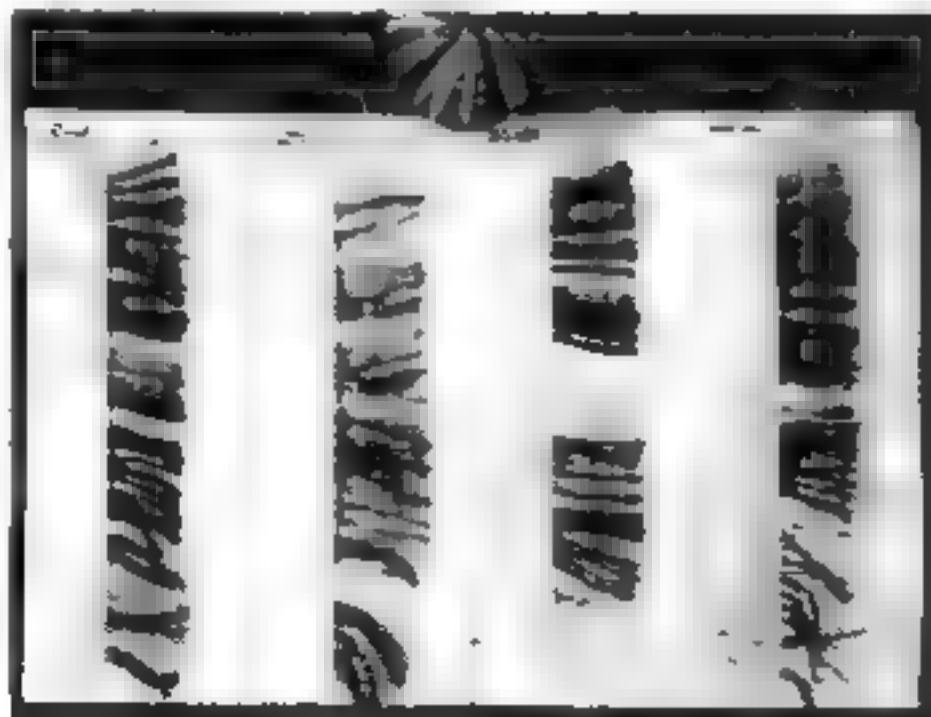
Melrose Yarns

Of the mail-order yarn catalogs that we've seen, this is the most complete least expensive. Prices are comparable to or better than most yarn alone.

Multose Yarns

\$50

Mr. John C. Murphy Jr.
M. 4 Astoria
P. New York 20



Cut Beads

In evaluating Indian beadwork one of the first things you notice is whether the beads are cut or seed beads. Cut beads are slightly faceted so they reflect a scattered sparkling of light from the beadwork. They raise the value of the piece because: (1) it is prettier, (2) the craftsmen went to the extra trouble or expense to get cut beads, (3), the piece may be durable.

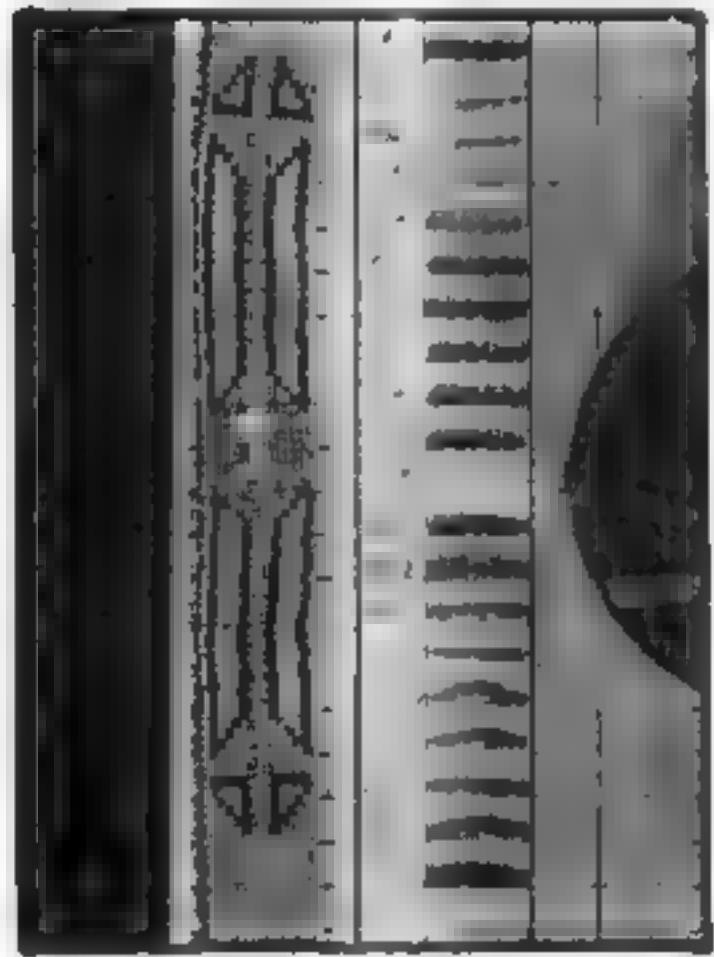
The single source of cut beads in America is Elliot Greene & Co., in New York. They sell a minimum of 1/2 lb. per color. Color your bead bushes to stock up.

Digitized by srujanika@gmail.com

Cvt Board

\$12.50 per 1/2 lb.

BR
b WHO & WHOIS
 +1-800-437-2438
F



Human Biocomputer

John Lilly has worked for a long time with sensory deprivation pursuing the notion that releasing the computer (mind) of many of its environmental-survival chores frees it to attend more fully to self-investigation. Of late he's added LSD to the process and has found ways to flourish and discover within this doubly healing condition.

The paper *Human Biocomputer* is the best internal guidebook I've seen - far more practical and generalized than transcendent Eastern writings or wishful underground notes. Though it's not the whole story by any means, it makes an open start on fresh language and powerful technique for the frontier.

An additional advantage the paper offers is the opportunity to learn and explore computers without requiring money or administrative approval. You inherited and gave everything you need and it's free.

(Suggested by RICHARD MASTERS)

For example, the term reprogramming substances may be appropriate for compounds like lysine, acid valproamide, or salicylic acid. Ethyl alcohol (the non-metaprogramming substance) may be useful.

Creative fluidity can be used to find substances of value and presence in this work, but they cannot be justified by the cost of large quantities of any one of them. Many substances which are truly valuable, inexpensively economical, and the authors' creative guides for example, are also to a large degree created by the power of mathematical transcomputing after the name of Dr. Nicolaas Bouwman.

This group of methemogens works in order to create a pharmacomputer with a mathematical nervous system. It is the mind of the mind molecules that's important - not the body itself. It does not work separately. The mind is part and parcel of the body. Desalivation becomes the procedure - this work should be in a group result. LSD is only one of hydrocarbon substances.

The major problems of the research of interest to the left are either the compatibility, modifiability, and variability of programs in other voices, or interests in the processes of creating self-reproducing and self-reinforcing entities which are useful to man. The task of the computer of the human computer is to not show whether it can really create any program.

The boundary of the brain of man is also the boundary of the limits of the extensions of the central nervous system into the periphery.

The chemically different entities in the body of the human computer are not necessarily compatible with each other. This is because of the fact that all the cells of the body are not necessarily compatible with each other. The body is composed of many different types of cells, and each type of cell has its own unique properties. These properties are not necessarily compatible with each other.

Human Biocomputer

John C. Lilly, M.D.
367 pp.

Int. ~ Vice Alzheimer says it about \$5.00!
Int. ~
Pub. ~
D. ~



After all, higher mathematical energy the subtlest intensity is no problem of the body, the bones and the forms amorphous reflected by the oligoenergies in the other realms.

The essential materials and the quasi-holistic in the cell angles is no problem in making the computer general purpose. In the bodies you see them in other life substances. At the molecular level, too, they do it. Only by defining the right action & behavior can a cell have its right program. Not of any arbitrary action, or ideal mode, but that using automatically programmed.

Much more communication were had here in the approach to the dolphin society. In a sort of the very filling with the body, the dolphin's ability of leading the herd was approached and the overall world approach to the dolphin society. The dolphin society is the multi-dimensional organization of dolphin society. This requires more to communicate without the necessity of the eyes of the body.



The Mind of the Dolphin

Lilly knows that it is to everybody's advantage for one kind of computer to link up with another, and that's his program with dolphins. This book reports his speculations and experiments with dolphins in recent years. Included is a thorough account by a girl, Margaret Howe, who lived alone with Peter Dolphin for 10 weeks. As usual with research on communication, everything discovered has broad implications.

Mental note: Note that if man could become more symbiotically problems of other species, he may become less involved with his own needs and needs of others within his species and become somehow a better being.

We are often asked, "If the dolphin has an intelligent why hasn't they ruled the world?" My very considered answer to this is - then may be too wise to rule the world. The question can be easily turned around. Why don't an intelligent man want to rule the world? Well that it is a very unique position to want to rule all of the other species and the vast resources of our planet. This means a deep intimacy with the universe inside and ones self. The fears and one's angers are being projected on others outside of ones self outside the world in. Finally to rule one's inner realities.

Thus a given dolphin can carry on a verbal conversation with his right side and a clicking conversation with his left side and do the two quite independently with the two halves of his brain.

conservatively we estimate that the dolphin can put out ten times the sonic physical information per second that a man produces.

The information does not exist as information until it is with the higher layers of structure of both of the mind and body; just as such. Up to the extent of which it becomes perceived as information it is signals. Those signals travel through the external reality between the two bodies and travel as signals in the brain substance themselves. Till the complex patterns of travelling neuronal impulses in the brain are computed as information within the brain all ones they are not yet information. Information is the result of a long series of computations based on 1000 digital inputs, 1000 signal transmissions to the brain substance, and recomputations of these data.

The Mind of the Dolphin

John C. Lilly, M.D.
1961, 130 pp.

\$5.95 postpaid

From:
32 Communications
100 Avenue
C. P. 434
Vancouver, B.C. V6Z 2G6

Using just feedback, noting that the over-the-negative should be done in any mode or any kind of thinking at all.

Found that both, some of the other - even in their form to be used - used in the negative mode are kept in their respective forms. As long as positive, all is well it is well negatives. The dolphin when it does move tends to complain to negative part.

One who has been through deep experiences in tune with the vast forces of the universe that are one with ourselves, we see that the need to realize the power of creation and the need for hatred become less intense. One finds the universe inside and the one outside of self and so rarely that any other being being that loves or shows any signs of being is unaware who does.

The human participant's assumptions - e. those of Margaret C. Howe in her own words are as follows:

1. Dolphins are capable of communication with man on the level of high intelligence.
2. Dolphins are not only capable of this communication but are eager for it and are willing to cooperate with man in achieving it.
3. Possibly the best way to prove establishing this communication is to set up a situation where the man (woman) and a dolphin live together as closely as possible for an extended period of time.
4. This is a long process and requires many steps, each of which must be recognized and encouraged. The attempt to communicate with a dolphin in English involves two main parts. 1. The dolphin must learn how to physically say the words, and 2. he must learn the meaning of what he is saying. These two parts may be worked out individually or simultaneously.
5. The first step is the health and the maintenance of the mutual trust and reciprocal rewards one for the other.

American Cinematographer

Accurate, specific information on what's new in equipment techniques, standards, and the attitudes of technicians using them. Also gossip and news about who's doing what where. Covers all aspects of professional filmmaking from Hollywood Super Panavision 70mm to 8mm educational loops.

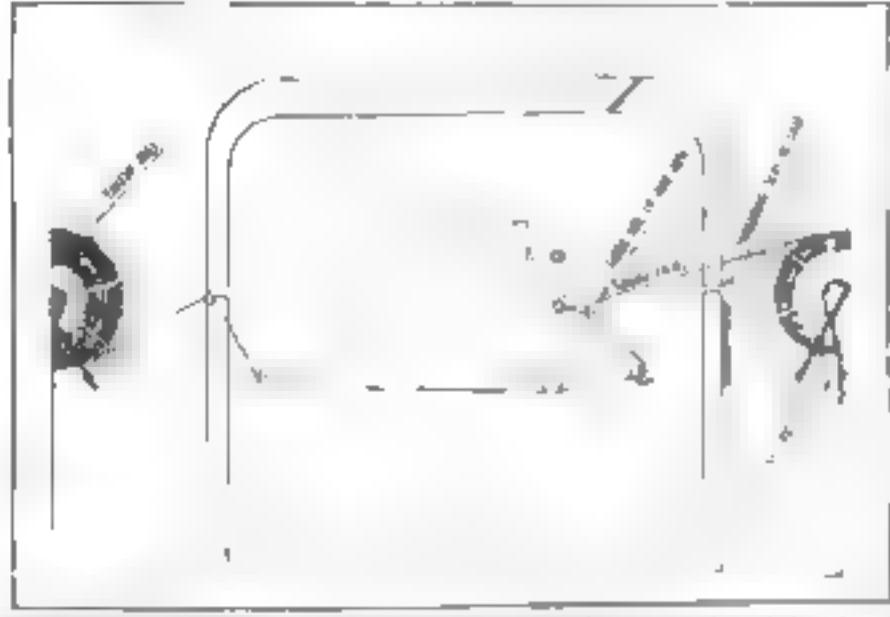
The ads, fully as important as the text, are mouthwatering for those with an appetite for Eclairs and such.

If you read it regularly you'll never need Badoeuy—you'll know how it's really done. Often the information is directly and simply usable; sometimes it stimulates visions of the super-cinemas of the future. When in school consulted back issues for a psychology paper on perception. The articles are really interesting and beat of all, there is no film criticism, so you avoid all those negative emotions.



Suggestion to Order Dept.
Baldwin Co., Santa Barbara, CA

For the 16mm film-maker who can't afford the real thing—a creditable substitute set-up to aid in cutting sync-sound film



...to make the synchronization easier. The film strip is a continuous strip of film. The film strip is continuous and has a series of marks along its length. These marks are used to synchronize the film strip with the sound track.

On the streets and in the buildings of Boston, a Hollywood motion picture crew films sequences for a high-style tale of bank robbery for kicks



"THE NEW DIMENSION"

Several classic methods for creating Special Effects—with and without an Optical Printer

It is on the verge, and by verge I mean it is about 8½ months pregnant, of delivering to us a great big, brand new opportunity to mold and shape something entirely new.

The Film Works' in San Francisco

Front Productions and Patterson & Hall have formed The Film Works. San Francisco's newest and possibly most complete establishment for source-in-depth feature film production for television, business and education offices are at 423 Bush Street, San Francisco, Calif. 94108 telephone 362-3230.

16mm FILM DIMENSIONS

Perforated One Edge Perforated Two Edges

Film	ASA SHARP	FILM DIMENSIONS inches							
		4	8	16	35	70	65	100	120
16mm 70 ft. spool	ASA	0.579	1.158	2.316	4.632	8.264	6.44	10.66	12.84
16mm 16 ft. spool	ASA	0.579	1.158	2.316	4.632	8.264	6.44	10.66	12.84
16mm 8 ft. spool	ASA	0.579	1.158	2.316	4.632	8.264	6.44	10.66	12.84
16mm 4 ft. spool	ASA	0	0	0	0	0	0	0	0

This dimension represents the length of the 100' spoolwise perforation elements.

For the film-maker on a budget—a way to make equipment serve a double-duty purpose

Anyone who edits film may be interested in the mechanical T-matic system. It is simple and economical.

American Cinematographer Manual

Indispensable data book, used by American cinematographers. Expensive, because it is absolutely comprehensive, up-to-date, from Hollywood, and has no competitors.

American Cinematographer Manual
Joseph V. Mascet, 4th ed.
\$40.00

\$12.50 postpaid

From:

8th Cinematographer Manual
P.O. Box 1000
Hollywood 10, Calif.
ARTM CATALOG



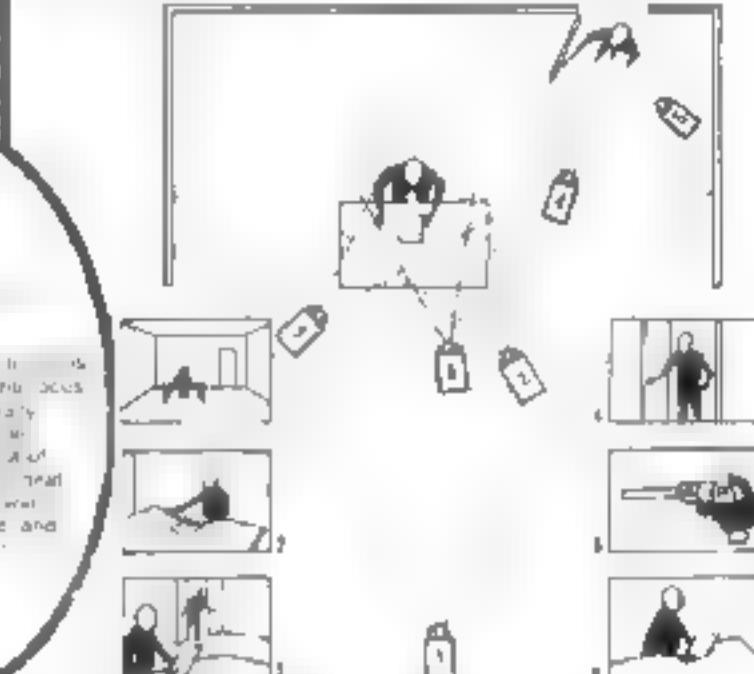
More than 500 production stages of motion pictures, television, commercials, documentaries, educational, industrial, and other types of film are covered. Includes a glossary of terms, a bibliography, and a detailed index.

The Technique of Documentary Film Production

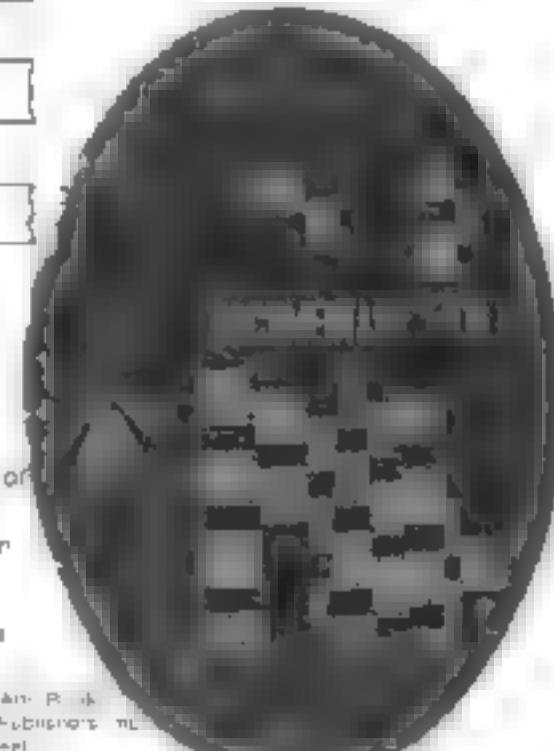
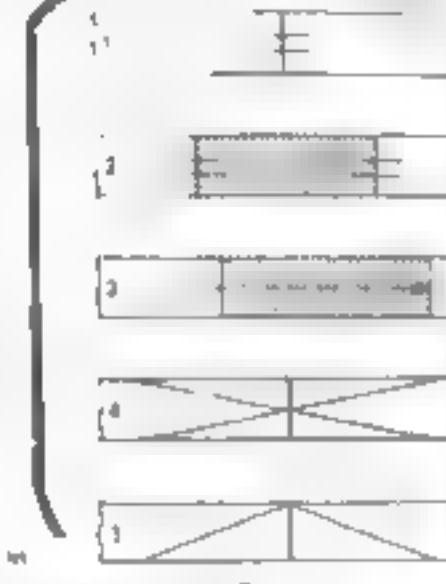
Try not to be put off by the word "documentary."

This is a book for times when you are starved for some lean and specific information. It covers all conventional aspects of filmmaking: subtle items, which can really best be learned by the experience of seeing and working on films (use of dissolves, effect of different lens lengths, etc.); necessary conventions, like systems of marking workprints; and technical facts about equipment, and the hundreds of little hints and tricks, some whimsical some incredibly mundane which technicians have hit upon by trial, error and inspiration over the years. All of these are discussed in the same thorough detached unemotional way. But at least the basic information is there so you can get it if you need it. This book will not help you to learn filmmaking—you'll have to bring along the enthusiasm and involvement—so start filming and then use it when you have to.

(Reviewed by Suzuki Tatsuo)



CONVENTIONAL CUTTING ROOM
SOUNDS: Animations join a film to expand joints while to insert a patch replacing a damaged portion of work print. Ignorance when matching material. 3. Extended scenes. 4. Fade out and fade in. 5. Dissolve. These signs are drawn on the workprint by the editor, usually with a filing age pencil, to guide the person matching the material.



The Technique of Documentary Film Production

1963 108 pp.

\$10.00 postpaid

From: Art Print
8th Cinematographer Manual
P.O. Box 1000
Hollywood 10, Calif.

It is not a man in medium shot and then take a close-up, at his close-up he must be in the same position in both shots, or to be exact, he must be in the same position at the end of the close-up as he was at the beginning. From the beginning of the close-up to the end of the close-up, he must be in the same position at the end of the close-up as he was at the beginning. This is because the film will be in the middle of the frame, and if it is not, then there has been a loss of time. On the face of it this is an obvious absurdity. It is also very surprising, therefore, that beginners fail to appreciate it and associate their shots with no such tell-tale errors between them, thinking that the audience will not be bothered by them.

Avoiding Paper Rustle

There is, for instance, that very basic requirement of ensuring that the microphone is always in the same position relative to the microphone. This is usually got around by tucking the pages of the book to separate an adjacent board. There is still the problem of how to attach the book to the board. Rubber bands are commonly used, but they can become caught in the adjacent board and emit a loud "snap". Paper clips are an alternative, but there is a great risk in one board becoming attached beneath the clip on the adjacent board. In the manner when it is necessary to move quickly in a voice-over. A possibility is to use an adhesive such as Clear gum, but this may take longer. An ingenious alternative is to type the script on a sheet of paper which will cost 01.00 (US). The drawback here is that it is not easy to take a carbon copy when typing on such a paper, since it is difficult to read, and in which event the commentator may not find it easy enough to read.

The Techniques of Television Production

I'm coming to believe that good how-to writing mostly depends on good programming. Millerson has mastered that, so you're inclined to believe that he knows his television. Certainly he covers the ground in a thorough fashion—studio layout, TV picture and camera, TV lighting, sound, film reproduction, sets, make-up, organization, imagery, camera control, editing, sound composition, production method, titling, effects and more. The book can make a more critical viewer of you. Or it can give you some skill to go with the know-how when you, yourself, get some control of the half-hour or hour-plus program about your scene.

INSTRUCTIONS TO SWITCHER (from Millerson)

Instructions

Take one cue to the Cut line

Fade up Two

S and by to Fade Two

Ready to Fade Two

Fade fade out Fade to black

Standby to mix dissolve Two

Mix in Two dissolve to Two

Cross dissolving three easily to

either Three

Standby to mix dissolve Three

Fade Two out One Two

Meaning

Switch to Camera 1—switcher

Turn cameras 2 & 3 video take up from camera 2

Prepare to fade camera 2 to camera 1

Turn cameras 1 & 2 video take down from camera 1

Wait until camera 1 is up

At 1/2 second interval at 1/2 second interval

Turn cameras 1 & 2 video take down from camera 2

Wait until camera 2 is up

At 1/2 second interval at 1/2 second interval

Turn cameras 1 & 2 video take up from camera 2

Wait until camera 2 is up

At 1/2 second interval at 1/2 second interval

Turn cameras 1 & 2 video take up from camera 1

Wait until camera 1 is up

At 1/2 second interval at 1/2 second interval

Turn cameras 1 & 2 video take up from camera 1

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Turn cameras 1 & 2 video take up from camera 1

<p

The Modern Utopian

intentional communities by now constitute a realm of activity worth having a magazine. This is the magazine, and it is very good. Dick Fairfield, who edits *Modern Utopian*, clearly has knowledge of the traditions behind intentional communities as well as notions about their possible futures. His information network is broad, so reports of current communities are wide as well as deep. As we're going to press, *Modern Utopian* is organizing an information service for individuals wanting to find a community to sell them and vice versa.

Starting a community farm is an incredibly difficult thing. We didn't fully realize this when we began. Setting up a new farm -- or rather, rehabilitating an old and neglected one -- was at least a season's work. Not to mention compensating for the work which should have been done the previous autumn.

SOUTH AMERICA TAKE IT AWAY

In the Chaco of Paraguay, fertile land is almost free, taxes are low, government interference is small. Some groups operating communities there, such as the pacifist Bruderhof, are granted a 10-year exemption from certain import tariffs and permanent exemption from conscription by the military. *Immigrant Group Settlements in Paraguay* is a good book by a professor at Bethel College, a Mennonite school in Kansas.

The cool Brazilian highlands have less fertility than the Chaco, but the climate is better, as are the political and cultural environments. Land 300 miles north of the new capitol, Brasilia, sells for \$2 an acre, taxes are low, tariff exemptions are granted, and U.S. citizens have the same rights as Brazilians. Fall-out is less in the Southern Hemisphere. For free brochure on Brazil land, write Selig Bros., Real Estate Co., P O Box 26014 Indianapolis Ind. 46224

--Gerald Baker.

Whether it's guarding a shrine, making electric music, applying Gestalt Therapy or feeding transient hippies, all viable communities have a conscious intent and meaningful function. As opposed to the lack of meaningful direction in today's American society, a conscious sense of purpose is the actualizing force if the community is to be more than a particularization of the social malaise it seeks to answer. Functions may change, sometimes with a rapidity which is quite mind-boggling within the community, these changes, how they occur, and the control of change must be understood throughout the community.

The Realist

Green Revolution

If The Realist is the father of every underground newspaper, Green Revolution is the mother of community papers from Holt are kind.

The Realist

10 issues \$1.00

\$3.00 for 10 issues

Green Revolution

10 issues \$1.00

\$3.00 for one year (monthly)

Books On Community in the Heathcote School of Living Library

Island, by A. Huxley Bantam, 95c

Walden Two, by B F Skinner Bantam \$1.95

Animal Farm, by George Orwell Signet 75c

California Utopian Colonies, by R V Hinde Yale Univ Press \$1.45

American Communities, by R V Hinde Corinth, \$1.45

Communitas, by Paul Goodman, Vintage, \$1.25

Pattern of Anarchy, by Kriegerman-Perry Doubleday \$1.95

Stranger in a Strange Land, by R A Heinlein, Berkley, 95c

Utopia, by Sir T More, Washington Square Press, 45c

Harrer Experiment, by Robert Harrer Bantam, 95c

Compulsory Miseducation and Community of Scholars, by Paul Goodman, Vintage \$1.95

Go Ahead and Live, by M J Loomis, Philosophical Library order from School of Living \$4.00

Kibbutz Venture in Utopia, by M E Spino Schorben \$1.95

Young Church in Action, by J B Phillips Macmillan 95c

To the Finland Station, by Edmund Wilson, Doubleday, \$1.95

Brock Farm, by L Swift Corbin \$1.95

Brave New World, by A. Huxley Bantam, 75c

Brave New World Remixed, by A. Huxley Penguin \$1.00

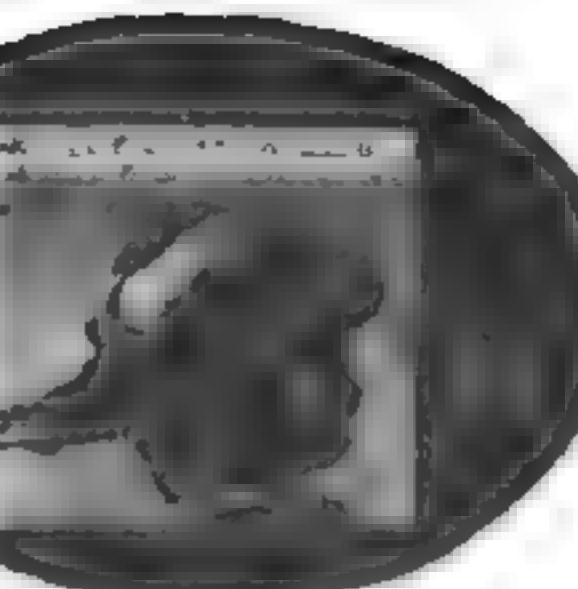
Republic by Plato Modern Library \$1.95

Looking Backward, by E. Bellamy Signet 75c

1984, by George Orwell, Signet, 75c

Anthem, by Ayn Rand Signet 80c

The Green Revolution



The Modern Utopian / A Way Out

Dick Fairfield, ed.

\$4.00 for one year (6-monthly)

10 issues
\$4.00



BEAUTIFUL NATURAL GRAIN CEREAL - PUT ALL THIS GRAIN IN A LARGE CAN - MIX - THIS CAN WILL LAST 4 PEOPLE 2 MONTHS - EAT IT EVERY DAY AND STRENGTH WILL COME TO YOU - WASH MILK AND HONEY OVER IT - HONEY AND SUGAR - COOK IT LIKE OATMEAL - FOR CAMPING ADD WATER

6 lbs of OATS

2 oz SOY LECITHIN

6 lbs WHEAT FLAKES

3 oz GROUND CHIA

6 lbs RYE FLAKES

SEEDS (SESAME, CHIA, RYE)

3 lbs WHEAT GERM

2 lbs NUTS

3 lbs SUNFLOWER SEEDS

1 lb SOY FLOUR

2 lbs PUMPKIN SEEDS

(OR CORN FLOUR)

4-6 lbs RAISINS

3-5 lbs DRIED FRUIT

3-oz RICE POLISHINGS

ORGANIC FAMILIA

ADD ANY SOFT CHEWABLE GRAINS YOU LIKE - KEEP ADDING TO IT - ALWAYS CHANGING

eat and enjoy

Dinner begins with a song followed by a short meditative silence. Sometimes a record is played, or the news listened to. During dinner we report on the day's happenings at our jobs, things we've read, and discuss the news. Around dessert we share the day's mail. Then dishes and lunch packing. Usually Connie and Rae--either separately or together--prepare dinner. The men usually either wash or rinse dishes. Connie packs for 1-2 weeks. Rae's in next.

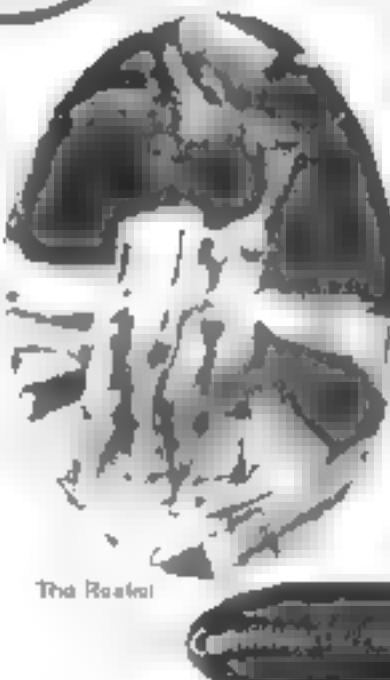
Planning, and even engineering, are therefore vital to the community. Skinner put an architect into the original planning group of his Warden II. Even if behavioral engineering is not to be a community concern, design must be considered, for defense against the state II for no other reason. But the real benefits are deeper. The established architecture of today, as exemplified by the code, has failed, and no longer creates viable environments for man. The new communities must design for a new life for man, and only through them can a new architecture of living and expanding be achieved.

All Watched over by Machines of Loving Grace

I like to think (and the sooner the better) of a cybernetic world where man and computer live together in mutual programming of harmony like pure water touching clear sky

I like to think (right now, please) of a cybernetic forest filled with pines and electronics where deer stroll peacefully past computers as if they were flowers with spiraling blossoms.

I like to think (it has to be!) of a cybernetic society where we are free of our labors and joined back to nature, rats and to our mammal brothers and sisters, and all watched over by machines of loving grace. The Realist



The Realist



THE GREEN REVOLUTION

THE GREEN REVOLUTION



THE DIGGER PAPERS



IN AMERICA a nation as incredibly wealthy as ours the morality is based on EXCUSES. True American career counselors now ask only one question:

"Do you want to produce garbage or do you want to collect garbage?"

Industrialist or politician?

Farm or factory?

The young people want no part of it of course, what with garbage their natural matrix & medium.

Produce it!

Collect it!

They want to fuck in it!

The career counselors build marvelous constructions of seduction & mystery, they transubstantiate symbol money into art

into power

into death insurance

into pleasure.

But it's just THINGS, it's garbage, it's over-flow & the young people know it.

They throw the career counselor out the window.

Who's going to collect the garbage?

who knows?

who cares?

Let's use it to set out our fantasies, use it for unimagined gratifications.

The Realist

Kibbutz: Venture in Utopia

This book is a straight forward description on one Kibbutz. It is the history, the problems and the moral codes of a community which began in 1920 and has grown steadily since that time. Over a span of several generations it has grappled with problems, both economic and social, which are similar to problems faced by the community movement in the United States today.

The book examines critically and sympathetically the issues of property, marriage, education, comfort, and communication as it has been dealt with over the various period of this Kibbutz.

While the book is of limited practical value as a how-to-do-it text, it offers a long term perspective on the difficulties and advantages of the community way of life.

Reviewed by James Fadiman

This is a community wide, was intended for the mass market by middle class intellectuals who deliberately chose to live in the kibbutz instead of aspiring to rise to the social ladder they seemed to "lose" in the capitalist attitude toward wealth which could be had easily. It is not intended to say only by romantic urban intellectuals.

The central characters of Kibbutz Yosefim (important not only because they constitute the entire family) at the time of the author's visit in 1969, number 1000. They seem unmoved by losing the prestige that their parents had, because the realization of their own worth is more important than all social standing or failure to be part of society.

The soldiers of the movement were simple. They included a well organized administration, a level of control which seemed to consist of a dozen meetings at the flick of a switch, and in the background aspect of life the general sense of worth.

But there are subtle as well as the obvious differences between the young who live a safe, comfortable life in the sun, and the old, the lonely, in whom the years have made them like the old trees in the forest.

Kibbutz: Venture in Utopia
Author: F. Saxon
\$2.25 363 pp

\$2.25 postpaid

From:
Y. & M. Books Inc.
P.O. Box 2026
NY 10016
or
MAIL CATALOG



This job becomes more than a job and more than a job. It becomes a way of life, a way of being, a way of relating to others, a way of relating to the world, a way of relating to God, and the world of God.

Instead of the traditional strict separation between work and leisure, a new synthesis is being sought. In the kibbutz, the old distinction between work and leisure is being replaced by a new synthesis of work and leisure. This new synthesis is based on the idea that work and leisure are not separate but rather interrelated.

The kibbutz is a community where work is done for the benefit of the community, not for the benefit of the individual. The kibbutz is a place where work and leisure are not separate but rather interrelated. This new synthesis is based on the idea that work and leisure are not separate but rather interrelated.

A more recent Hugo Award winner than *Stranger in a Strange Land*, *Dune* is rich re-readable fantasy with clear portrayal of the fierce environment it takes to colonize a community. It's been enjoying currency in Berkeley and smaller communities such as Libre. The metaphor is ecology. The theme revolution.

For instance, I saw what was happening: the old world was dying and in dying, giving birth experiences into new worlds. Men in water, split into two, became two men in water. A man dying in combustion, the old Puebloan Mother left her side in her last moments, until then her singing blur of words.



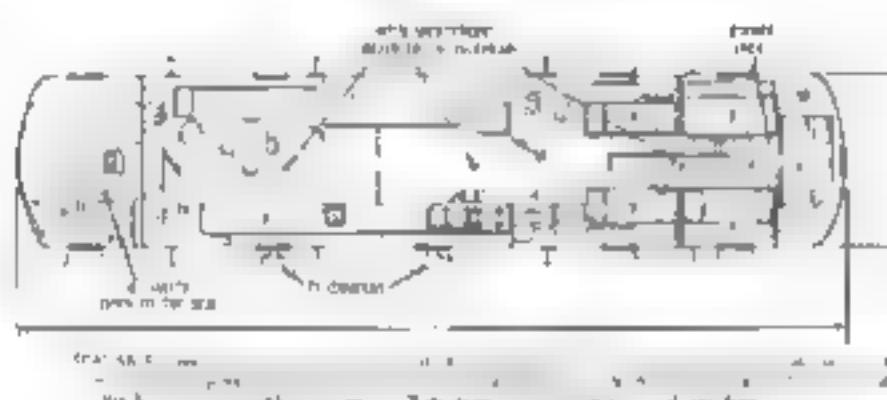
Dune
Frank Herbert
\$2.25 440 pp

\$2.25 postpaid
From:
Y. & M. Books Inc.
P.O. Box 2026
NY 10016
or
MAIL CATALOG

book stores

Groups Under Stress

This is a physiological study of the behavior of the three German river twirls who spent 14 days 250 feet down in the Pacific in SEALAB II. The team lived and worked in a 12 x 57' cylinder under high hazard and high public visibility conditions. Their performances were exemplary, and this book seeks to 1) Explain the high performance level and 2) Improve methodology for such psychological studies in the field.



The weather outside was extremely dangerous and during all the time we were there, we had to be extremely careful. We had to be very aware of our surroundings and of the potential dangers in our environment.

Then suddenly realized that we made it. It was a real sense of well-being to do something like this. We were all happy to be here. We made it with our own hands. We did it ourselves. We had all the time we wanted. It was very pretty. It was great to be at the bottom of the ocean. It was like being in a dream. It was like fighting to get to the surface.

People were more than they were at the surface. And we were more than they were at the surface. The SEALAB crew was able to do high exertion chores. We all reported to other and this is something. Even though you hate a guy a guts, you respect him.

I personally was amazed at how well we got along under such cramped conditions. I think we knew everybody and we all of them was to be nice. You went around and people and talking the stuff over and we were learning lots of new and exciting things. It seems to me that everybody was just trying to be above because they realized this kind of environment does one new once did get stressed. It might speed the abilities.

Q. Did you control your emotions?
A. I censorship my emotions. Don't know about the rest of us. Well, I think so.

Festbros reported significant higher life and lower well-being while egg is less during time after making lower scores from SEALAB.

The significance of group support is well summarized in the sentence expressed by a member of an Antarctic wintering party who said: "If the rest of the world get to go to stop, failing to you, that is worse than when the go off and leave you in a crashsite" (Rother 1960).

So I hope I didn't give too much, but the only thing I can really say is that there is a lot to be done. It will be interesting that anyone who has read this book will be able to judge the remaining chapters by comparing that it was really a meaningful and well organized book.

The first day we were there, we had a lot of fun. It was interesting that everyone had different ways of dealing with the same situation. It was interesting that it was really a meaningful and well organized book.

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Groups Under Stress-Psychological Research in SEALAB II

Roland Redditt, Robert Helmreich

\$5.00 postpaid from

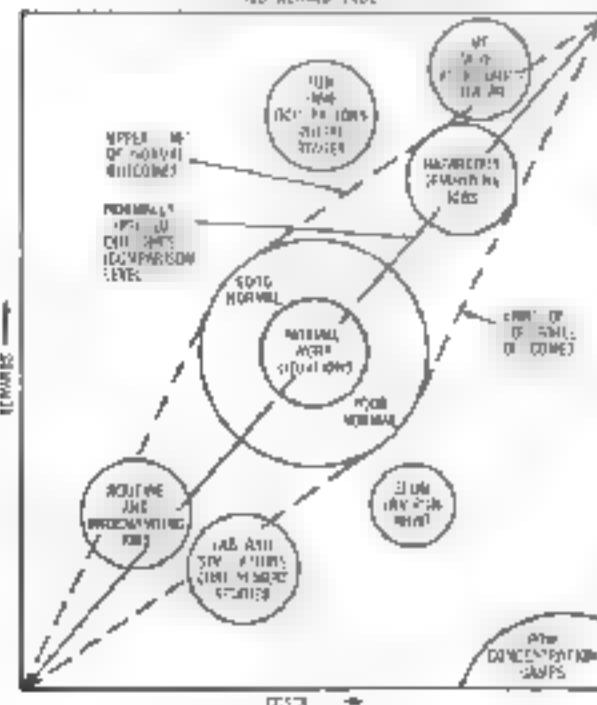
Age: 19th-Century Crafts
40 Avenue French
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The book is technical, but it may be useful to groups who wish to improve their performances on one frontier or another, or to leaders who are interested in highly motivated teamwork, or to anyone wishing to analyze group dynamics.

COSTS AND REWARDS IN WORK ENVIRONMENTS

As Roland Redditt



The Merck Manual

In 1850 type-packed pages this book covers most of the possible diseases and injuries that can occur to human beings. Each difficulty is described, symptoms are discussed and suggested treatments are indicated.

The writing is extremely technical and is designed as a ready reference for practicing nurses and physicians. Unless you are at ease with the unusually colorful language of modern medicine you will need a medical dictionary to fully understand this book.

While a considerable portion of the advice given is sensible and does not require a doctor's presence, much of the book will not be of use to persons who do not have access to medical supplies. This book is not intended in any sense for primitive or simple living conditions. It does not describe alternatives if medical treatment is not available nor does it suggest folk treatments in lieu of hospitalization. However, if you want to understand what is going on when a member of your family or community is seriously ill, this volume can be helpful. There is an excellent index as well as a special section devoted to specific prescriptions and special therapies. The excerpts given below illustrate both the common sense and the technical aspects of this volume.

However, in the U.S.A.

Innovator reports that many prescription drugs can be obtained without a prescription and at low cost from veterinary supply houses - SBI

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Innovator

The people who produce and read Innovator are very dubious about Society's chances just now. They expect an Anax Shrugged sort of collapse, and they are preparing for it by defining and becoming proficient at a libertarian way of life, philosophic and bodily survival amid order or chaos. Recently Innovator has shifted emphasis toward bodily survival, carrying information on self-defense, nomadic techniques, community techniques, secure communications and so forth.



Innovator is published quarterly. Free Trade, a supplement devoted to how and how-independent, comes out monthly (beginning in Jan 1980) by Dan Buckworth.

\$1.00 Innovator for one year

\$4.00 Innovator and Free Trade for one year

In
H
400 California Street

The Retreater's Bibliography



Listed here are titles, costs, sources, and some capsule reviews of books relevant to living outside a system. Some of the categories overlap with WHOLE EARTH CATALOG listings, and we've found that sometimes we have more complete information; sometimes the Stephens do.

Retreater's categories include: Camping and Survival, Finding a Proper Location, Food Supply, and Domestic Animals; Building Your Own Home; Medicine; Education and Retreat Library; Recreation; Protection and Hunting; Land Mobility; Water Mobility; Waste Disposal; and General.

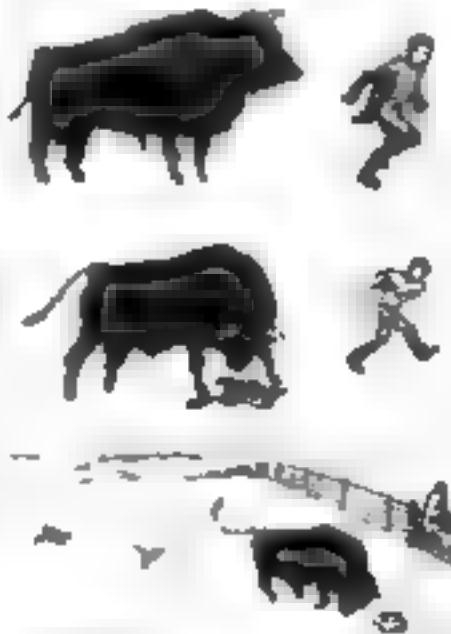
The Retreater's Bibliography
Don and Barbie Stephens
96pp. \$6 pp

\$9.50

Interprint Inc.
P.O. Box 2004
Berkeley, CA 94701

The Book of Survival

The Book of Survival is hilarious to read aloud, which is fine because the situations sink so low the laugh, and need some you're running from an enraged bull you remember doing, bring down your voice!



The Book of Survival

Anthony Greenbank
NY 100-100 pp

\$5.98 postage

from
How
How
How
How
How

ART GALLERY



DRUGS

1. If you're taking in other countries it might be dangerous
2. You should and we suggest it should be taken in drug free countries
3. You should be careful about what you take

4. You should buy at any of these cities in India

5. You should buy the following substances at this address
6. At the local Indian market

7. Before traveling you should take a drug. When you get home it will help you feel better. Take your
8. You should take the following things as many drugs as
9. You should not take too much alcohol as you can't
10. You should never take any of these drugs. Drinking alcohol

When you're on the ground and being kicked by a horse
1. Keep stretching out your kickers with arms. (P.S. Always
keep your head up and your back straight with arms bent
backwards so that you don't fall over when you're kicked)
2. You should always keep your hands up and your arms crossed above
your head when you're kicked. This will make it easier to move quickly.

If you attack a horse it should be much easier than you think.
1. You should always be aware of your surroundings and be
2. You should always be aware of your surroundings and be
3. You should always be aware of your surroundings and be
4. You should always be aware of your surroundings and be



Boat and boat paddle

PEACEFUL ALIENATION AND HOW TO HAPPY WITH

DO NOT USE OF THAT IDEA INSTANTLY TO PUSH AWAY FROM
1. FIGHTING YOURSELF TOWARD POINT OF IMPACT

2. WALKING ARMED DRUNK IN ROAD

3. WALKING ARMED DRUNK IN ROAD

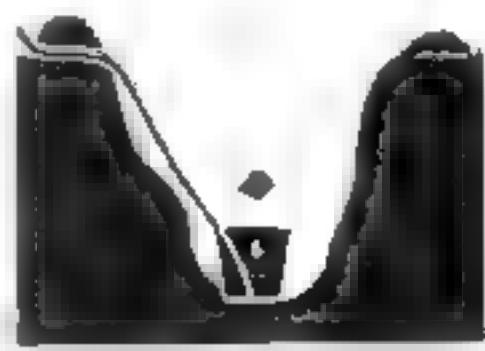


Person hanging from tree limb

Nomadics 45

FIGHTING DRUNK
Humor

If someone is drunk, drunks can offer astoundingly strong grip. Hit
them hard, and hit, may make him sick.



Person in boat

EMERGENCY CHILD-BIRTH

Mother is alone. Don't leave her alone. Squat down. Let nature
handle it. Don't interfere.

1. KEEP BABY'S CORD OR ITS CORD OR AFTERBIRTH ATTACHED
TO MOTHER'S CORD

2. IF BABY IS BORN AS BABY IS DELIVERED

3. IF BABY IS BORN AS BABY IS DELIVERED

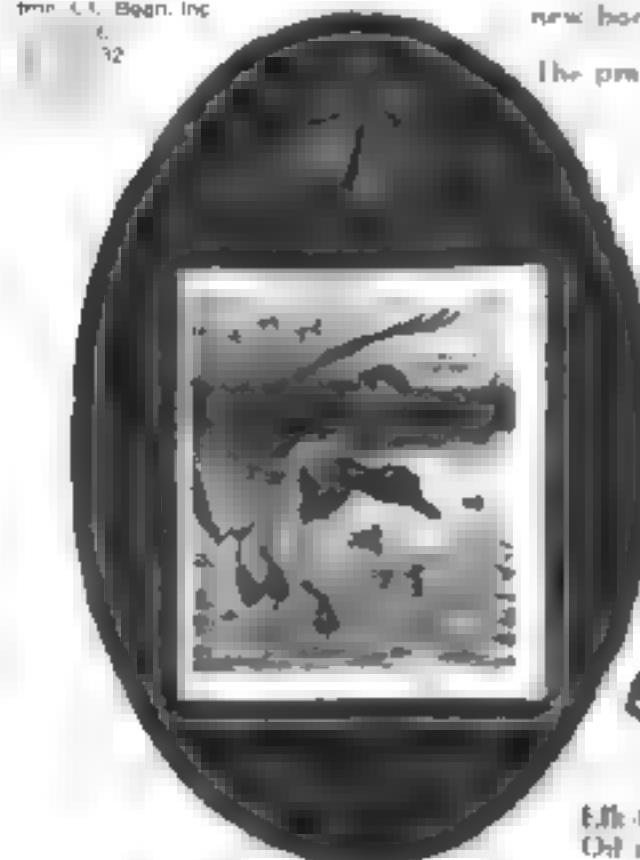
4. KEEP BABY WARM. PLACE BETWEEN MOTHER'S EGGS

LL. Bean

The Bear catalog is the model for the WHOLE EARTH CATALOG. Mr. Bean had a directness and integrity that shows through his catalog. His products do service. The catalog has excellent items, especially outdoor clothing. An uncommonly pleasant company to do business with.

Catalog, Free

from LL. Bean, Inc.
P.O. Box 12



Bean's Maine Hunting Shoe

Mr. Bean first developed this boot in 1912. He was tired of coming home with wet and sore feet from wearing the heavy leather woodsmen boots then in common use. Rubber boots were clumsy and too clumsy for all day walking. He decided to combine light weight leather tops with all rubber bottoms incorporating the best features of both types of foot-wear and store away with the disadvantages. He called his new boot the "Maine Hunting Shoe".

The practical advantages of this design were readily apparent to hunters and woodsmen. He had around walking in the high or wet areas, hitting rock, bushes, and a cushioned sole would not hurt him. He could walk over rocky terrain. He could go up and down steep hills without being fatigued. All he had to do was to keep it clean. It was light and flexible so that he could be out all day in perfect comfort. The Maine Hunting Shoe was an instant success.



	6 in.	8 in.	10 in.	12 in.	14 in.	16 in.	Postpaid
Oil grained	\$16.00	\$17.00	\$19.00	\$20.00	\$21.00	\$22.00	
Oil grained	\$16.85	\$18.85	\$19.85	\$20.85	\$21.85	\$22.85	

*14 in. and 16 in. heights come with brown oil grained tops only. For leather books add 50¢.

R

Organized as a cooperative in 1936. Purchasership equipment. Our bus (bus) is a membership in "Solid with each other" instead of than existing. Mutual gains and replace a friend with below any other supplies with the exception of a few items we're equal. They don't buy anything from us. We're offering equipment. Clothing membership \$1.00.

(Reproduced by permission of Philip Morris)

6 in. oil grained equipment
with leather
Postpaid \$1.00



[C] Teflon Tape Closure. The pull-apart closure that takes the place of a zipper. Attached and separated with a simple twist.	23
6215614 1 hook per foot	23
6215615 1 eye per foot	23
6215616 1 hook per foot	23
6215617 1 eye per foot	23

Mountaineering Medicine, a concise handy guide to treatment of all sorts of local injuries in the mountains. By Dr. Fred Durville.

6269276

Collapsible Telescopic Poles, lightweight aluminum 2-piece telescoping poles. Folding down to average 4'. Ideal for trips, tent, average, etc.	1.00
6269273 4' length, 18 oz.	1.00
6269272 7' length, 20 oz.	1.10
6269274 8' length, 22 oz.	1.20

[C] Collapsible 6-8' Telescopic Pole. A telescopic pole used with McKinley or Camper tents. Extends to 8' and collapses to 21 1/2" diameter. Weight 23 1/2 oz.

6269275

4.00

Bean's Folding Sled

Strong enough to hold 1,000 pounds, yet weighs only 10 pounds. Originally designed to haul game into camp but is very useful for ice fishing, skating parties and for carrying food and equipment to camp. In case of accident may be used for hauling injured.

Length 48", width 18 1/2", height 6 1/2". Dimensions when folded - length 65 1/2" x 8 1/4" x 5".

May be carried on back seat of automobile.

When not in use may be folded and hung on wall taking very little space. Price \$16.00 postpaid.



BULK PACKED FREEZE-DRIED FOOD

These dried dehydrated are suitable for expeditions. They must be rehydrated. Reheat this product to prevent spoilage.

3 Quarts in Polybag. Packed in cardboard cartons.

Corn whole kernel 16 oz.	6269213	1.93
Peach golden 4 oz.	6269214	3.90
Strawberries 4 oz.	6269212	1.60
Peaches 4 oz.	6269216	4.30
Beef Pot Pie, 8-10 oz. 1% lb.	6269223	4.75

2 1/2 QUARTS FROZEN FRUIT

Apple King Crust, net weight 4 1/2 oz. packed 6269218 4.98

[A] Silver Cup. Stainless steel, all-time favorite, one handle, nested. 3 oz. 6249237 1.00

[B] Nesting Aluminum Cup. With folding screw handle. Nested.

1/2 ounce 6269232 .55
1/4 ounce 6269233 .60

[C] Bob-Lane Cup. Unique stainless cup holds 1/2 cup. It does not leak after weight until 12 oz. 6232627 1.25



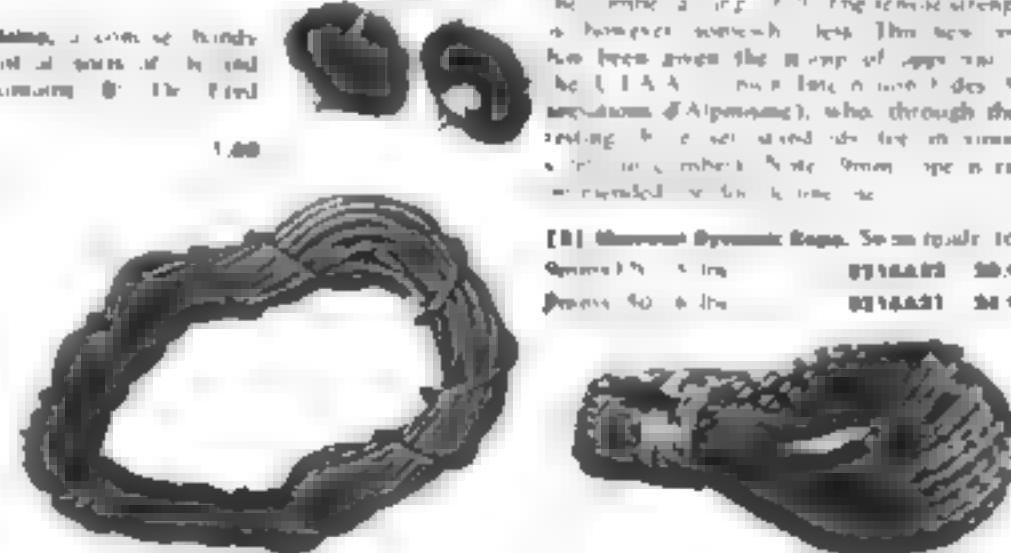
DYNAMIC ROPE

In recent years the Entomologists have developed new dynamic rope made of synthetic materials all-polymer strands of nylon surrounded by a woven sheath. This has been found to be very strong and easy to handle. It can be cut easily. It kinks in use. Gated. It has a breaking strength of about 10,000 lbs. This rating is due to its texture. To be made a ring 1/2". The tensile strength is however somewhat less. This new rope has been given the name of dynamic because it does not kink (Alpinism), who through their testing have set standard for an endurance of 10,000 lbs. When rope is cut it is intended to be able to tie it.

[D] Mountaineering Dynamic Rope. Seven-ply twisted. Strength 15' - 5 lbs.	6269242 20.00
Strength 30' - 6 lbs.	6269241 24.00



Mount Kennedy, 14,000'. In 1965, our men and equipment were on the first ascent of the peak named for the late President, and on the subsequent mapping research done in the area.



LL Bean cont.

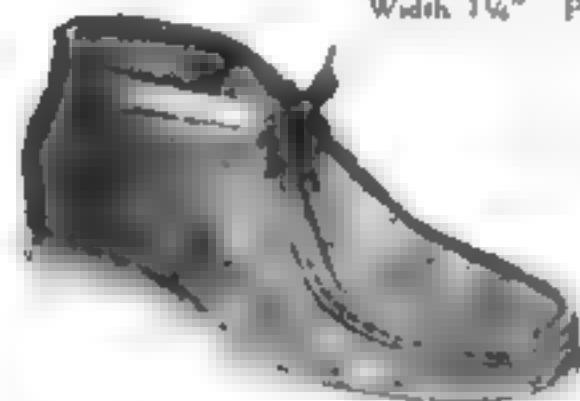
Heavy Duty Belt

Hoe hunters, fishermen and guides who require a solid leather belt for hard service. A fancy dress belt looks out of place on heavy hunting pants.



Made of high grade genuine cowhide with brass plated buckle. Two colors: Light Tan, Black. Sizes 24 to 48.

Width 1 1/4". Price, \$1.80 postpaid.



Ventilated leather insole. Firm heel counters. Elasticized laces for snug, non-binding fit.

Color Sand Suede.

Men's Ankle Height (above)

Sizes 7 to 13. Whole and half sizes. (No size 12 1/2.)

Medium width.

Price, Men's Ankle Height Wallabees, \$21.95 a pair postpaid.

Ladies' Low Cut (at right)

Sizes 5 to 10. Whole and half sizes.

Medium width.

Price, Ladies' Low Cut Wallabees, \$19.95 a pair postpaid.

Wallabees

(For Men and Women)

A new design by Clarks of England for complete walking comfort. Fit perfectly on the first wearing.

Special "Feature Form" lasts fit the natural contours of the feet. Do not restrict them in any way yet provide firm support.

Gloves leather uppers of full grained European calfskin suede. Extra thick, soft and supple. Wedge type soles of plantation crepe rubber have a resilience not found in synthetic crepes.

Moccasin construction with hand sewed toe piece. Molded orthopedic-type arch support enclosed in sponge rubber and crepes.



Color: Bright Red and Black Plaid

Men's sizes 30 to 50. Regular width.

Price, \$23.50 postpaid.



Bean's Insulated Boot Pant

Constructed same as Mackinaw of 21 oz. wool lined with quilted, foam rubber insulation. Extra warm, not bulky and hard wearing. Four deep, strong pockets with flaps on rear ones. Watch pocket, riveted suspender buttons and knit cuffs. Weight about 2 1/4 lbs. Dry cleanable.

Color: Bright Red and Black Plaid

Men's sizes 30 to 50. Regular width.

Price, \$23.50 postpaid.

Bean's Improved Sandwich Spreader

Professional quality of high grade stainless steel with mirror finish. Beautifully grained rosewood handle. Brass rivets. Blade is stiff enough to dig out thick spreads or for turning. Flexible enough for easy spreading and frosting. Sharp serrated edge cuts sandwiches, cheeses, vegetables, etc. Overall length 7 1/4". Blade 3 1/2".

Price, \$1.25 postpaid

Gerry Outdoor Equipment

The boldest reputation for innovative design in camping equipment belongs to Gerry Cunningham. Now there's a statement that can be challenged! Do it. Gerry packs, tents, parks, sleeping bags, tickle carriers. Make up a well crafted meal deal. GERRY, Inc.

Gerry Catalog Free

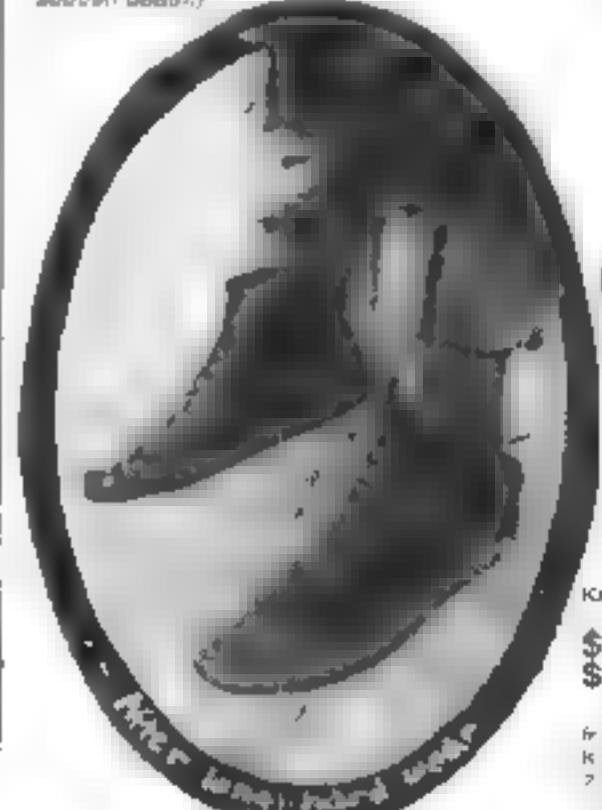
California Outfitter Box
P.O. Box 1100
Berkeley, Calif.
441-1100



Dosaboty. Crumpled-up newspaper will insulate. It will compress easily for packing. But once compressed it will never regain its original thickness. Fine goose down however can be crumpled up, stored for months or years and will always puff up to 4x original thickness within half an hour after being exposed to air. After all, it is down that insulates. Use the knapsack full cycle of compression and then use the stuff that you need to insulate. Built up your bag as soon as the tent is up. Then pull it up again before you leave it. For more information on this subject send for my free booklet, *How to Keep Warm*.

Kalbab boots

Kalbab boots are the real thing - traditional Indian desert moccasins. Made of deer skin and horsehair, they are light, effective, and durable - just the right amount of improvement over bare feet. Unfortunately there are innumerable imitations of Kalbabs, all terrible. The giveaway is the seam between sole and top. If the sewing is visible on the outside the moccasins are frauds and will fall off your foot in a few weeks. Real Kalbabs will last six months of steady use, and when you finally come through the soles, you can send the tops to Tucson for new soles (\$12.00) and get another six months. (One warning: Kalbab on wet skin sidewall are sudden death.)



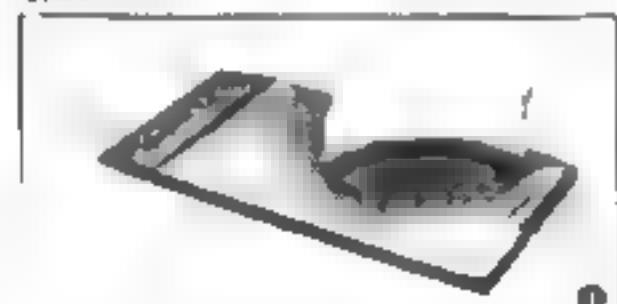
Foam pads

Lighter than an air mattress • Warmer than an air mattress • Can't melt and let you down • Compact carries in same stuff sack as your sleeping bag • Pileup pocket at head end • Removable waterproof cover facilitates airing and drying.

Shortie 20-Pound Camp

Number 10000. Length 16' 7" x 24'
Size 36" long x 30" wide x 10" deep
Shipping weight 2 lbs

\$8.00



Gerry Kiddie seat

Lightest of all frame carriers • Aluminum tubing • Tough canvas duck seat supports baby snugly tight • Can be used as car seat with adapter strap

Number P1000
Weight 10 lbs
Dimensions 36" x 24" x 10"

\$11.00

Item	2	4
Vagabond pack/frame	2	0
Wilderness sleeper	4	2
Shortie foam pad	1	2
Wedge-round tent/poles	5	0
1 1/2 qt. pot lid	0	0
Cup spoon	10	0
3 lb. food	3	0
Poncho	14	0
TOTAL WEIGHT	16	12
Item	2	4
Vagabond pack/frame	2	0
Wilderness sleeper	4	2
Shortie foam pad	1	2
1 1/2 qt. pot lid	0	0
Cup spoon	10	0
Ad kit/cord flashlight	0	0
Poncho	14	0
1 lb. food	1	0
TOTAL WEIGHT	16	12



Kalbab boots

\$18.75 mens
\$17.75 Indian

Fr
K
7
Kirklin
Story

Hot Springs

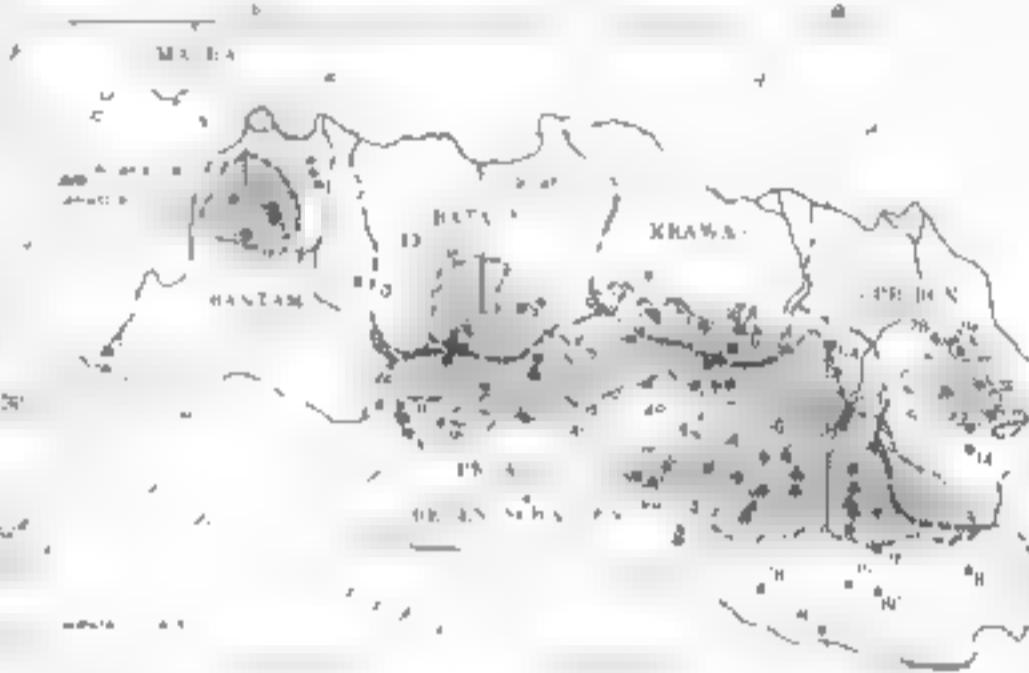
It seems incredible that there would be such a book! Here are map location of all the known hot springs in the world, along with information on temperature, rate of flow, mineral content, and whether commercial or wild. You could travel the rest of your days from spring to spring, stopping at that Tataparu springs, on the west bank of the Stunkasi river ("3 springs forming small pool") 50 miles northwest of Mt. Everest, or the Hammam Ouled Sidi Abdell ancient Roman baths, still flowing at 500 liters/minute, 81° F 50 miles southwest of Oran, Algeria.

Published by the U.S. Geological Survey for a song, this directory fails to mention the plastic ice-water gizmo that prevents those who mess up wild hot springs.

Thermal Springs of the United States and Other Countries of the World—A Summary
by G. W. Kiehl
946 pp.

\$2.75 postage
from
Bureau of Economic Geology
University of Texas
Austin, Texas 78713
U.S.A.
VIA AIR MAIL

Thermal springs and wells in Argentina—Continued							
No. on Bog. 3	Name or location	Temp. of water °C	Flow rate per minute	Type of discharge (color grade)	Minerals and principal chemical constituents	Associated rocks	Remarks and additional information
45	E. Sanvictores (part obscured)	24	Moderately large	4,000	Na, SO ₄ , Cl	Precambrian? slate	gallio spring and several small flowing wells. Water used for drinking by cattle.
46	Alumbrante de Copaz de Tingo Spa (5 km southwest of Potosí).	27	Large	4,700	Na, SO ₄ , Cl	do	Water used for bathing in salt springs. Water is much briny and salty.
47	Tocilco (in La Rioja)	28	do	400,000	Na, HCO ₃ , Cl, NaCl, MgCl ₂	Paleozoic shales	Several springs. Delicate water. Water used for drinking.
48	Pomarita (A Juan José) et al.	30-45	100	2,000	Na, SO ₄ , NaCl, CaCl ₂ , MgCl ₂	Paleozoic limestone	Water used for drinking.
49	Quiruvata de Huancas (bedrock of Andes)	24-28	100	2,000	Na, SO ₄ , Cl; few sulf.	Tertiary (?) deposits	Water used locally
50	El Volcan.	27.1	do	do	do	do	do



Informational Log

THE EXPLORERS TRADEMARK LOG

THE EXPLORERS TR

Sierra Club

Sigma Club is currently going global in its considerations publishing gorgeous books on non-U.S. wildernesses, promoting Earth national park etc.

We aren't listing their exhibitor-format books simply because they aren't strictly tools. They do publish useful specific topic books and if you're a member you get discounts on them. Other services to members include the monthly Sierra Club Bulletin and organized access to local and global wild places plus having a hand in obstructing dumb progress.

\$14.00 first year membership. \$10.00 annual renewal.

\$16.50 Fifth year for husband and wife; \$12.50 subsequently.

\$8.50 first year for members 2 to 10 \$3.00 subsequent years

卷之三



The Narrow Road to the Deep North

Folklore in the example of the uprooted tree which is broken. He called thousands of miles away thought that his provisions would suffice and the state of those nearby. And the pure form of the tree is left only a short time to stand alone in the middle of the hillside of Yokyo among the waste of the autumn wind.

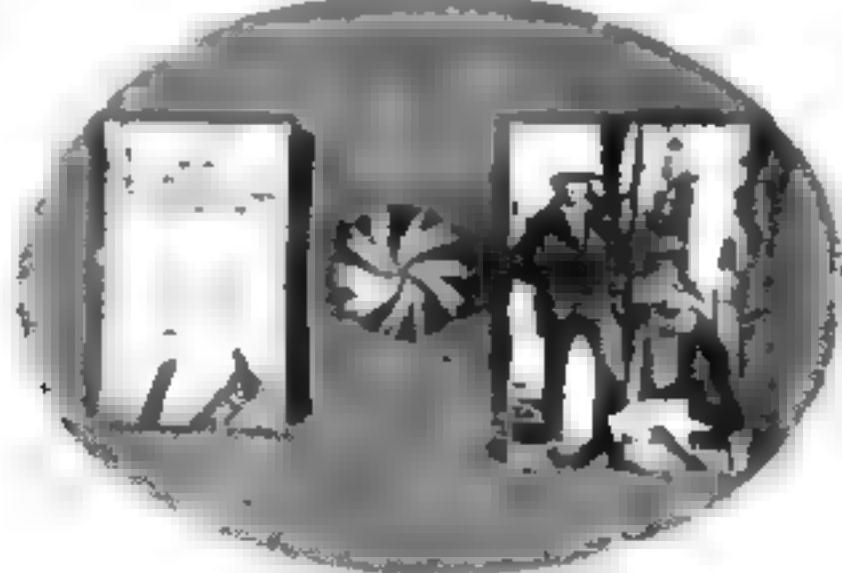
What help the ones with
learning through the eye

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The Narrow Road to the Deep North and Other Travel Sketches
Barrie
.688; 1908; 117 pp.

\$1.75 each

[View all reviews](#)



Trout Fishing in America

"I'm not," I said. "I'm a bit of a loner." "A loner?"
He looked at me. "The last person I saw was you. The same
thing must have happened to you. You must be a loner." "I'm not a
loner," I said. "I'm a bit of a loner." "Exclusive," I said. "I thought you were a West African."

4. Many years ago there was a house with 12 doors.
Each door had a lock + key. There were 12 locks
and 12 keys. One day a thief came and took all 12 locks
and all 12 keys. Now he can't get into any of the 12 doors.
What is the answer? + How did he do it?

תורת פירנמן וסימונס
ב- תרבות ורַבְּיָגָן
100/- 112pp.

\$1.95 10519513

100

Sat red

of
John Talbot
Who at the Age of Eighteen
Had His Ass Shot Off
In a Honky-Tonk

This Mayonnaise Jar
With Wilted Flowers In It
Was Left Here Six Months Ago
By His Sister
Who Is In
The Crazy Place Now



Toward a Theory of Instruction

We were going to carry Jerome Bruner's *Toward a Theory of Instruction* (83-95, Harvard University Press) here to account of his reputation but on reading it we can believe there isn't something better. If there is something better than you know about, would you tell us. If there isn't, would you mind reviewing this excellently book. Fill this space with a check \$10.

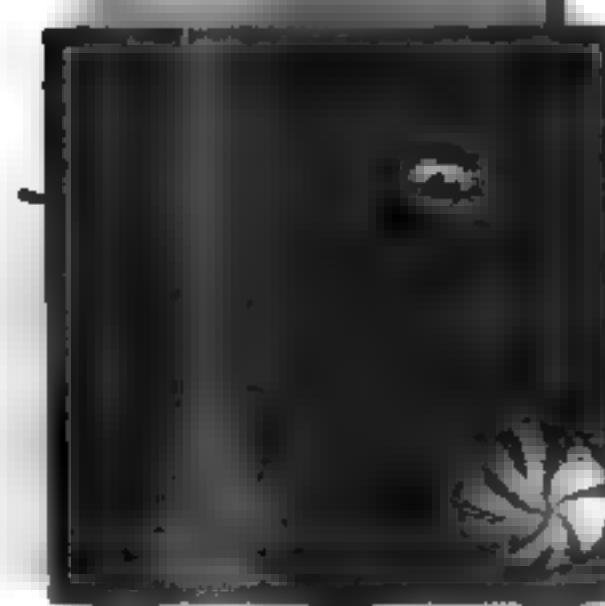
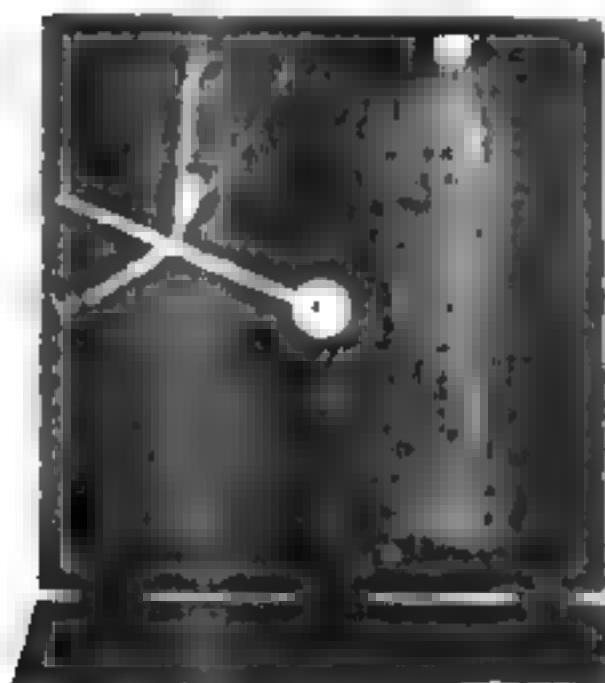
The Black Box

Officially, the name of this learning device is "The Inquiry Box." It was developed by Skinner Research Associates by Richard Schumann. It is a black wooden box, 7" x 3" x 2". On one side there are 3 small rectangular holes; the opposite side has one hole, and the remaining sides have 2 holes each. You don't know what's going on inside but some things are. For example, there may be a string coming out of one hole and a rod sticking out of another. If so, you pull the string, the rod jumps. By pulling and pushing the things that stick out and by poking around inside with a stick you're supposed to figure out what arrangement of pulleys, pegs, springs and strings is inside.

There are an inexhaustible number of ways to arrange the insides with the components provided (see illustration). One kid can set up the mystery arrangement for another, you can set it up for them, they can set it up for you. As this certainly isn't limited to children, it's not at all a dull game for adults.

The Inquiry Box was designed for the promotion of theory building and theory testing in children. The teachers need built-in incentives to very young children to use the box by Bill, you want to make the child just the box, you do. Now, if you think using it will help you, please.

Copyright © 1970 by the Pearson Education, Inc. All Rights Reserved.



Inquiry Box set

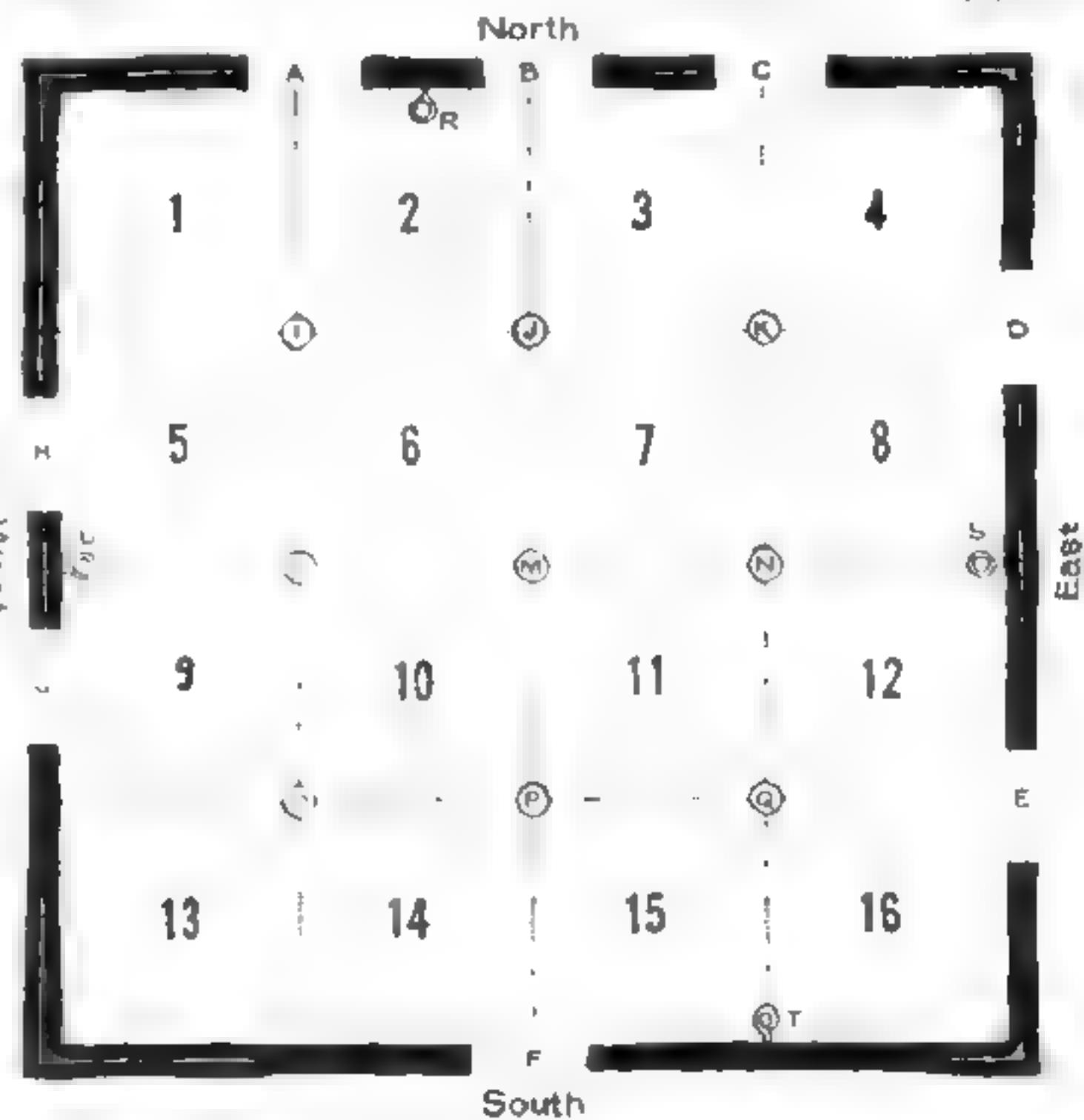
\$19.96 Shipping Weight 1 1/2 lb

From
P.O. Box 1000
Skinner Research Associates, Inc.
Iola Street
Illinois 60640

INQUIRY box theory sheet

Science Research Associates, Inc., 200 East Erie Street, Chicago
A Subsidiary of SRA SRA

NAME _____ DATE _____ PROBLEM NO. _____



POSSIBLE LINKAGE COMPONENTS



© 70 Science Research Associates, Inc. All rights reserved. Design - U.S.A.

Reorder No. 34363

Ita Abarz with Cumulative Rate & her reputation for changing the formerly ignorant into the now-delighted. Usually kids learning to read and write are considered not good by the Andwick or normal English spelling. With the Ita alphabet, it's most logical and consistent. Even language becomes a tool instead of a drag; the kids commence reading and writing on their own terms. Later on the mark, the shift to normal alphabetic spelling without particular strain won over those generations that did not bother to shift.

Ita has other applications & benefits for you can best learn language better with it. In its transition to Framework's work used for a radio series

A BETTER AND HAPPIER LIFE IN THE U.S.A. NO. 200001 1963

Book price of workbooks \$1.50 each
Benton
Benton
Institutional
20 pages
Now \$1.50

Book price
\$1.50

The Inshai teaching alphabet

Invented in England by Sir James Pitman and introduced in 1963 in the United States, the Inshai teaching alphabet (I t a) is used as a transitional teaching tool to help people learn to read. It has 44 symbols, each representing a sound, which take care of the linguistic irregularities of the traditional alphabet. After having learned to read with I t a, the beginner transfers with ease to the traditional alphabet.

The second year of experimentation with I t a in this country has shown remarkable effectiveness, not only in many first grades, but also in remedial reading, kindergarten reading readiness, and adult illiteracy classes.

How to Learn to Write the Pen

\$2.95

Order from
The Inshai Institute
P.O. Box 1000
Benton
Illinois 61012

LIFE Science Library



Cover of book \$2.95 includes the book only. They do pickup in most cities and can mail books to you. Address to the Mr. G. W. Johnson, Department of Biology, University of Michigan, Ann Arbor, Michigan 48104.

Johnson was a new professor appointed one of the first in Michigan. His book is the "MICHIGAN BIRDS AND BIRDCRAFT". It is the first book ever written on birds in Michigan. It is a comprehensive book with full color illustrations and scientific names. It is by Arthur C. Clarke, Walter C. Ladd, and Kenneth C. Clark.

Most popular science books are easily right & full time. This series puts special emphasis on modern developments.

The books are fully illustrated and from Time Inc.



PIECES OF A PICTURE

The object of this perception test is to fit in the missing pieces so that a familiar picture appears. If the test remains puzzling at your reading distance try again from three feet before looking at the answer below.

Separate pieces
Light and shadow



Order from
The Inshai Institute
P.O. Box 1000
Benton
Illinois 61012

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WFF 'N PROOF

The WFF 'N PROOF games came out of the ALL project Accelerated Learning of Logic, at Yale Law School. This project was established in 1960 to develop materials to teach mathematical logic to elementary school students. The authors first principle in designing the games was that they be fun to play.

The primary aim of WFF 'N PROOF is to encourage a favorable attitude toward symbolic method so as to give a general idea of what is involved in doing something about mathematical logic and provide practice in abstract thinking.

[From the introduction to the WFF 'N PROOF manual]

WFF 'N PROOF is a series of 21 games. The first ones can be played by children (starting around age eight); the last ones are difficult enough to interest logicians. The first game can be bought separately under the name of just WFF. It is the best game and children always like to play it. In it you learn what a WFF (well-formed formula) is, and there is no nicer way of doing that. The rest of the games teach you about constructing logical proofs. They are more tedious and a good teacher can find ways of doing this which are more fun. There's no harm in getting the whole set, however, and using it as long as it works.

[Reviewed by Jane Burton]

WFF \$1.50 postpaid

WFF 'N PROOF \$6.50 postpaid

From:
W.F. - KICB
P.O. Box 1000
R.R. #1
W.F. 06492

The world championships from WFF 'N MATCH are
for tickets **\$1.25** postpaid (We play it in pairs)
The RCAI Number Game **\$1.25** postpaid
It's Sixes - The Game of Set Theory **\$4.50** postpaid
Equations **\$3.50** postpaid
The Propaganda Game **\$5.50** postpaid

Dr. Nim

Arrange 15 matches in 3 rows with 3 in the first row, 5 in the second row and 7 in the third row.



This is a game for two players. You win by forcing your opponent to pick up the last match. When it's your turn you play by taking as many matches as you like from any row. You may take the whole row if you like but from one row only. This is the game of NIM and is actually a logical puzzle. For the first player can always win once he knows the winning strategy. The puzzle is to figure out that strategy.

Dr. Nim is a simple but amazingly clever computer which is programmed to play a perfect game of NIM with you. But Dr. Nim goes sad and so it is possible to beat him. He will win every time however until you figure out the winning strategy.

Dr. Nim is played with marbles instead of matches and the marbles are taken off the board by being released by a mechanical trigger. When it is Dr. Nim's turn to play you press the trigger once for him and then, if it's in his best interest to remove more marbles, he will do so by running the marble over the trigger.

There's a good manual that comes with the game which tells you a little about computers and computer logic. It's the best way to give kids for grown-ups an idea of how computers work.

[Reviewed by Jane Burton]

from the Manual:

Man has a stream of consciousness, an identity, he thinks about himself, is philosophical, one minute and proceeds to solve a problem the next. He has a huge recognition memory that requires effort less. Having met a person only once, for example, and seen him again, and, in a single, the man forgets him again in a different location. Of course, he has difficulty recalling his name, but his memory seems to be designed primarily for recognition, not recall. If he goes into a movie, if the movie he recognizes immediately, the point at which he came in because he "sees" that he has seen and heard this part of the film before. Yet he cannot recall what the actors are going to say till. When they say the last line, he recognises immediately that he has seen and heard them before; however,

from
Edmund Scientific Co.
P.O. Hukling
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New Jersey 08007
C.O.D. stores



We Built Our Own Computers

Temp kids built their own radios. Now
PC rockets and computers, and so much the
better. Once you've built one computer, you
have a far more sophisticated relationship with
all computers. This British book prepared by
high school boys who indeed built their own
computers is an excellent introduction to
friends in technique.

Suggested by Jane Burton

We Built Our Own Computers

ad 2-8 Soft

\$1.95 postpaid

From:
28 University Park
U.S.A.
475 10021



Electric Logical Computer Exeter

Motor to
drive selector

Variables

Latch selector drum

Brushes to
var. bins

Printout board

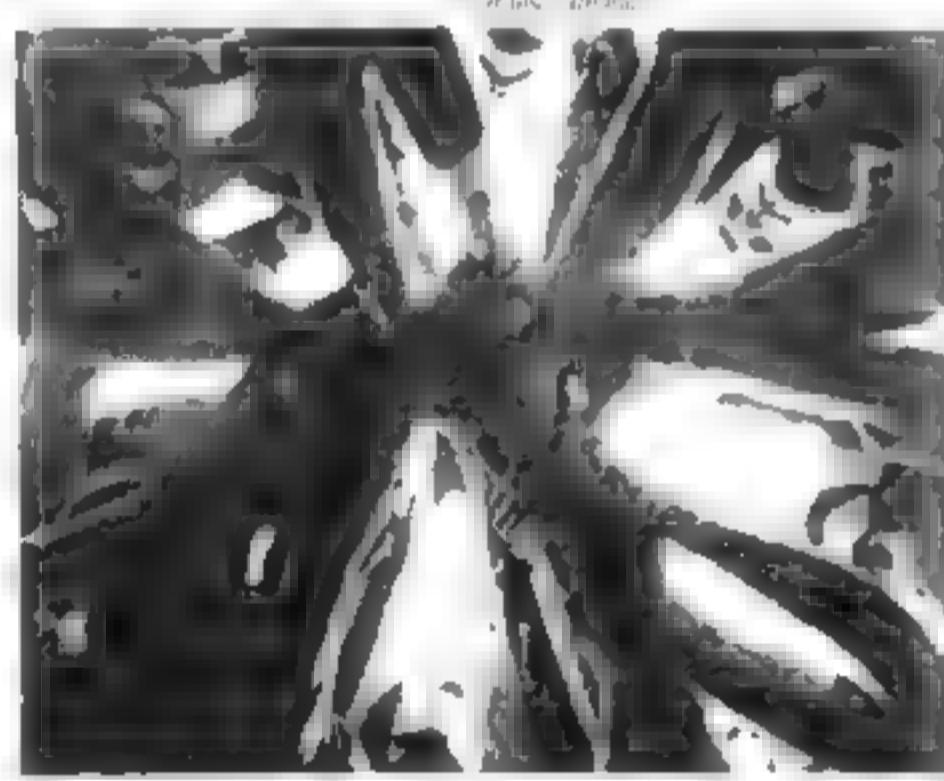
Control panel



Sense Relaxation

Becoming comfortable with touch required patience and awareness. Experience what your attitudes are, how you touch. What your feelings are. Slowly. If you do, you can change these reactions and allow yourself to enjoy touching, not only others, but also yourself, paper, food, trees, animals, flowers, like.

This is a book which is an experience while it teaches you how to have additional experiences. It is a "picture book" in the sense that forward, now-in-time, visual pleasure by pictures or words. Down your reading, this book is a picture guide - slowly and with great care through this book you will find joy in the words the pictures are so compelling. The second and most times through you will read individual sections and take note of the pictures suggest. Finally you will begin to have this book and touch relaxation and pleasure in you and this book is very suitable in its basic philosophy even for beginners. Pictures and groups to tune in to their own bodies and in a certain sense Cather gives suggestions and techniques to enhance an individual's own relaxation all for the same purpose: body and ultimately relaxation and peace of mind.



Zen Flesh, Zen Bones

A collection of Zen and pre-Zen writings by Paul Reps:
 • The Tao Te Ching
 • The Analects
 • The Heart Sutra
 • The Diamond Sutra
 • The Lotus Sutra
 • The Diamond Sutra

Whose Zen do you like? Suzuki's, Blythe's, yours? Reps is best at yours.

Zen Flesh, Zen Bones
 ed. Paul Reps
 198 pp.

\$9.95 (includes postage)

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A Yaqui Way of Knowledge

This book records the experiences of an anthropology student who becomes the apprentice of don Juan, a Yaqui Indian "man of knowledge" who is also a "diablero", a black sorcerer. It is a profoundly disturbing book since it opens up areas and ideas we usually dismiss or deny. Don Juan, over a period of five years, teaches the author a little of his knowledge. He teaches through giving his apprentice various psycho-active plants: peyote, datura, and a mixture of psilocybin mushrooms, genista canariensis, and other plants. Each of these plants has its own way of teaching, its own demands and its own kind of power. For those of us who thought we understood psychedelic effects this book reveals the rudimentary state of our knowledge. For those of us who have dismissed magic as a combination of hypnosis and stage effects we are confronted with powerful and effective magic which seems immutable.

Don Juan himself appears as a powerful, indecipherable, wise man whose knowledge is both extensive and alien to our own. He offers to each of us the possibility of dealing with other realities, but he makes it clear that all these ways are dangerous, difficult and once entered, cannot be put aside as simply another experience.

The goal of his teaching is partially expressed as follows:

The particular thing to learn is how to get to the crack between the worlds and how to enter the other world. There is a crack between the two worlds, the world of the diablero and the world of living men. There is a place where these two worlds overlap. The crack is there. It opens and closes like a door in the wind. To get there a man must exercise his will. He must, I should say, develop an indomitable desire for it, a single-minded dedication. But he must do it without the help of any power or any man...

Not a book to be read for pleasure, a book which will affect you more than you may wish to be affected.

(Reviewed by James Fadiman)

(Why not read it for pleasure? It's frontier Boswell and Johnson. — SB)

"Don't get me wrong, don Juan," I protested. "I want to have an ally but I also want to know everything I can. You yourself have said that knowledge is power."

"Not!" he said emphatically. "Power rests on the word of knowledge and helps. What is the sense of knowing things that are useless?"



Once a man has vanquished fear, he is free from it for the rest of his life because instead of fear, he has acquired clarity — a clarity of mind which erases fear. By then a man knows his desires; he knows how to satisfy those desires. He can anticipate the new steps of learning, and a sharp clarity surrounds everything. The man feels that nothing is concealed.

And thus he has encountered his second enemy: Clarity! That clarity of mind, which is so hard to obtain, dispels fear but also blinds.

"I say it is useless to waste your life on one path, especially if that path has no heart."

"But how do you know when a path has no heart, don Juan?"

"Before you embark on it you ask the question Does this path have a heart? If the answer is no, you will know it, and then you must choose another path."

"But how will I know for sure whether a Path has a heart or not?"

"Anybody would know that. The trouble is nobody asks the question and when a man finally realizes that he has taken a path without a heart the path is ready to kill him. At that point very few men can step to deliberate, and leave the path."

"How should I proceed to ask the question properly, don Juan?"

"Just ask it."

"I mean, is there a proper method, so I would not lie to myself and believe the answer is yes when it really is no?"

"Why would you lie?"

"Perhaps because at the moment the path is pleasant and enjoyable."

"That is nonsense. A path without a heart is never enjoyable. You have to work hard even to take it. On the other hand, a path with heart is easy; it does not make you work at taking it."

You have the vanity to believe you live in two worlds, but that is only your vanity. There is but one single world for us. We are men, and must follow the world of men constantly.

"But is this business of the dog and me pleasing on each other true?"

"It was not a dog! How many times do I have to tell you that? This is the only way to understand it. It's the only way! It was 'he' who played with you."

"Let's put it another way, don Juan. What I meant to say is that if I had tied myself to a rock with a heavy chain I would have flown just the same, because my body had nothing to do with my flying." Don looked at me intently. "If you tie yourself to a rock," he said, "I'm afraid you will have to fly holding the rock with its heavy chain."

The Teachings of Don Juan: A Yaqui Way of Knowledge

Carlos Castaneda	ISBN	9001
1968; 186 pp.	U.S.A.	University of California Press
\$5.95 postpaid	25	West 45th Street
	East	New York, N.Y. 10036
	Ca	CA 94720

Room 701
25 West 45th Street
New York, N.Y. 10036
or
WHOLE EARTH CATALOG

Fundamentals of Yoga

Mishra has practised as general physician, surgeon and endocrinologist in India and the West and has a thorough knowledge of Western medicine as well as yoga. This makes his book invaluable to the student desiring a detailed scientific understanding of yogic theory and methods. The book contains several interesting diagrams of physical systems and psycho-physical planes of consciousness.

Being a practicing teacher of yoga, Mishra writes in a forthright direct style and gives, in each chapter, exercises arranged in numbered steps, to practice the methods described. The physical, or *hatha* yoga methods are described in some detail, though still only as preparatory to the other types of exercises. Methods not usually described in other works on yoga — such as *natakam* (concentrated gazing) and *nadam* (tuning in to inner sound-vibration) are also taught and given extensive treatment. There are chapters on "Techniques to Magnetize the Body", "Group Relaxation and Group Magnetism", "Postoperative and Post-meditative Suggestion", "Anesthesia Produced by Yoganidra", "Heal Yourself by Your Own Hormones and Tranquilizers" et al.

One might find fault with the book's somewhat excessive load of Hindu terminology, much of which is redundant, and of more interest to students of Indian culture than to practitioners.

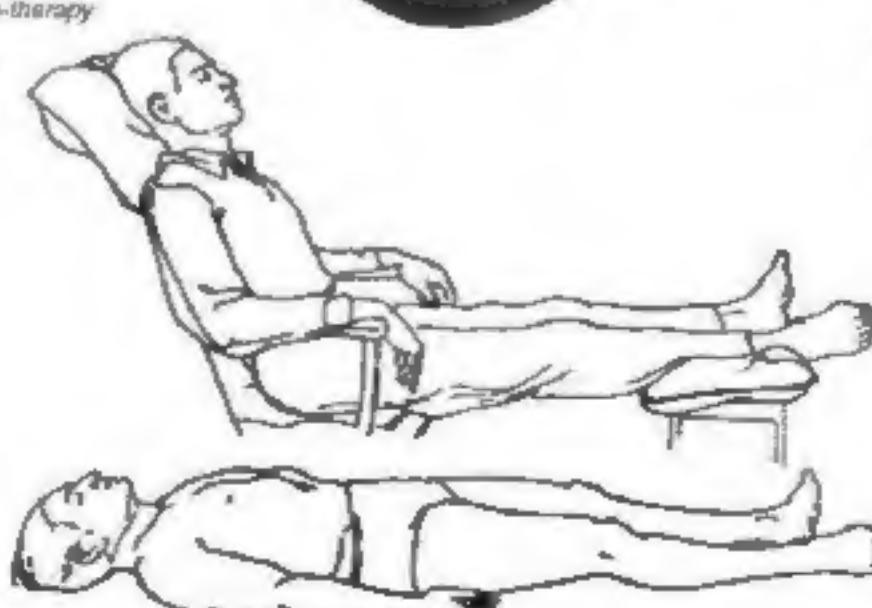
This is probably the best book for those professionals and laymen who want to apply yogic techniques in physical and psycho-therapy both for themselves and others.

(Suggested and Reviewed by Ralph Metzner)

Fundamentals of Yoga
Kamini Mishra
1968; 265 pp.

\$5.00 postpaid

In Print
Title: Fundamentals of Yoga
Author: Kamini Mishra
Publisher: University of California Press
Address: 25 West 45th Street, New York, N.Y. 10036



"Now you are in your native land. Now you do not know where your body is. The entire universe is in you and you are in the entire universe. Innumerable suns, stars, and planets are moving in you. Feel it, enjoy your real life." Complete silence.

1. Adopt an easy posture.
2. Relax your entire body.
3. Feel your heart pumping in the chest.
4. Hold your breath.
5. In a moment you will feel that heart rate and vigor of beat are increased.
6. With every heartbeat, the heart is sending energy to every part of the body. Feel it.
7. With increased heart rate and beat, energy is changed into electric magnetic pulsation and the entire body is filled with it. Feel it.
8. The entire is not magnetized, and the spiritual heart and spiritual consciousness are fully manifested in you. Feel them.
9. The whole body becomes the heart of the universe, and you feel that the entire body is pulsating as a single heart.
10. Gradually you forget the feelings of the physical body and you identify yourself completely with supreme consciousness.
11. Now you know that your consciousness is never a product of the body, but is manifested in the body.
12. Feel that your body is one point of manifestation of consciousness, but you are everywhere.

There are innumerable varieties of nadam, but they will be impractical for beginners. The following ten are the most useful and frequent:

1. Om nadam: Like the hum of the honey-intoxicated bees; idling engine vibration, rainfall; whistling sounds; high frequency sound.
2. Cincin nadam: Waterfall, roaring of an ocean.
3. Ghanta nadam: Sound of a bell ringing.
4. Sankha nadam: Sound of a conch shell.
5. Tantra vina: Nasal sound, humming sound like that of a wire string instrument.
6. Tala nadam: Sound of a small light drum.
7. Venu nadam: Sound of a flute.
8. Mridanga: Sound of a big bass drum.
9. Shan nadam: Echoing sound.
10. Megha nadam: Roll of distant thunder.

The Act of Creation

Koestler takes his notion of bisociation to be the root of humor, discovery, and art. I take it to be one of the roots of learning, subject to applications of method (on yourself or whomever).

Koestler is a scientist of some reputation by now. He's made contributions beyond the work of others that he's generalized from. This is the book that gave him the reputation.

There are two ways of escaping our more or less automated routines of thinking and behaving. The first, of course, is the plunge into dreamlike or dream-like states, when the codes of rational thinking are suspended. The other way is also an escape — from boredom, stagnation, intellectual predicaments, and emotional frustration—but an escape in the opposite direction. It is signaled by the spontaneous flash of insight which shows a familiar situation or event in a new light, and elicits a new response to it. The bisociative act connects previously unconnected matrices of experience. It makes us "understand what it is to be awake, to be living on several planes at once" (to quote T.S. Eliot, somewhat out of context).

The first way of escape is a regression to earlier, more primitive levels of ideation, exemplified in the language of the dream; the second an ascent to a new, more complex level of mental evolution. Though seemingly opposed, the two processes will turn out to be intimately related.

When two independent matrices of perception or reasoning interact with each other the result (as I hope to show), is either a collision ending in laughter, or their fusion in a new intellectual synthesis, or their confrontation in an aesthetic experience. The bisociative patterns found in any domain of creative activity are tri-valent; that is to say, the same pair of matrices can produce comic, tragic, or intellectually challenging effects.

The re-structuring of mental organization effected by the new discovery implies that the creative act has a revolutionary or destructive side. The path of history is strewn with its victims: the discarded arts of art, the epicycles and phlogistines of science.

Associative skills, on the other hand, even of the sophisticated kind which require a high degree of concentration, do not display the above features. Their biological equivalents are the activities of the organism while in a state of dynamic equilibrium with the environment — as distinct from the more spectacular manifestations of its regenerative potentialities. The skills of reasoning rely on habit, governed by well-established rules of the game, the "reasonable person" — used as a standard norm in English common law — is level-headed instead of multi-level-headed; adaptive and not destructive; an enlightened conservative, not a revolutionary; willing to learn under proper guidance, but unable to be guided by his dreams.

The main distinguishing features of associative and bisociative thought may now be summed up, somewhat brutally, as follows:

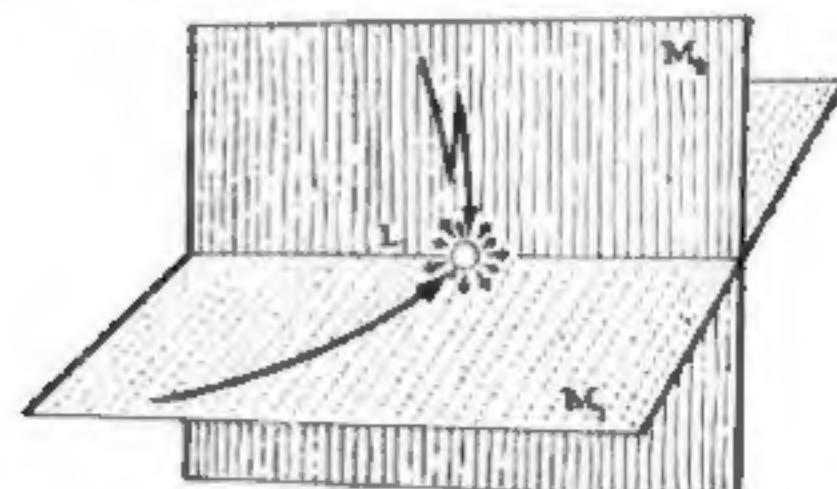
Habit	Originality
Association within the confines of a given matrix	Bisociation of independent matrices
Guidance by pre-conscious or extra-conscious processes	Guidance by sub-conscious processes normally under restraint
Dynamic equilibrium	Activation of regenerative potential
Rigid to flexible variations on a theme	Super-flexibility (multiple pour plusieurs sauter)
Repetitiveness	Novelty
Conservative	Destructive-Constructive



The Act of Creation

Arthur Koestler
1964, 750 pp.
\$1.25 postpaid
from
D. Appleton-Century Company, Inc.
750 Madison Avenue
New York, N.Y. 10017
or from book stores.

I have coined the term 'bisociation' in order to make a distinction between the routine skills of thinking on a single 'plane', as it were, and the creative act, which, as I shall try to show, always operates on



more than one plane. The former may be called single-minded, the latter is double-minded. Transitory state of unstable equilibrium where the balance of both emotion and thought is disturbed.

Everybody can ride a bicycle, but nobody knows how it is done. Not even engineers and bicycle manufacturers know the formula for the correct method of counteracting the tendency to fall by turning the handlebars so that 'for a given angle of unbalance the curvature of each winding is inversely proportional to the square of the speed at which the cyclist is proceeding'. The cyclist obeys a code of rules which is specific, but which he cannot specify; he could write on his number-plate Pascual's motto: "Le coeur a ses raisons que la raison ne connaît point." Or, to put it in a more abstract way:

The controls of a skilled activity generally function below the level of consciousness on which that activity takes place. The code is a hidden persuader.

This applies not only to our visceral activities and muscular skills, but also to the skill of perceiving the world around us in a coherent and meaningful manner. Hold your left hand six inches, the other twelve inches, away from your eyes; they will look about the same size, although the retinal image of the left is twice the size of the right. Trace the contours of your face with a soap finger on the bathroom mirror (it is easily done by closing one eye). There is a shock waiting: the image which looked life-size has shrunk to half-size. Like a head-hunter's trophy. A person walking away does not seem to become a dwarf — as he should; a black glove looks just as black in the sunlight as in shadow — though it should not; when a coin is held before the eyes in a tilted position its retinal projection will be a more or less flattened ellipse; yet we see it as a circle, because we know it to be a circle, and it takes some effort to see it actually as a squashed oval shape. Seeing is believing, as the saying goes, but the reverse is also true: knowing is seeing. "Even the most elementary perceptions," wrote Bertrand Russell, "have the character of inferential constructions." But the inferential process, which controls perception, again works unconsciously. Seeing is a skill, part innate, part acquired in early infancy. The selective codes in this case operate on the input, not on the output. The stimuli impinging on the senses provide only the raw material of our conscious experience — the 'booming, buzzing confusion' of William James; before reaching awareness the input is filtered, processed, distorted, interpreted, and reorganized in a series of relay-stations at various levels of the nervous system; but the processing itself is not experienced by the person, and the rules of the game according to which the controls work are unknown to him.

The I Ching

The *I Ching*, the Book of Changes, is a brilliant problem-solving device. A problem (or ignorance) generally consists of being caught in local cyclic thinking. To consult the oracle, the wisdom of chance (or synchronicity, no matter), is to step out of the cycle of no-change and address a specific story on the nature of change. You now have an alternative set of solutions that owe nothing but proximity to your problem. You make the associations, you find the way out. It's prayer.

I can't think of a more important and useful book than this one. It's famously ancient, poetic, deep, esoteric, simple, involving. It has been the most influential book on American art and artists in the last 15 years.

Most people know about it. We've included it here to point to the new smaller (unabridged) cheaper Princeton University Press version of the classic Wilhelm-Baynes Bollingen edition. The oracle method is still on page 721.



49. Ko/Revolution (Mutiny)



above

TUI The Joyous, Lake
LI The Choking, Fire

The Chinese character for this hexagram means in its original sense an animal's pull, which is changed in the course of the year by mutiny. From this the word is carried over to apply to the "mutinies" in political life, the great revolutions connected with changes of government. The two trigrams making up the hexagram are the same two that appear in K'uei, OPPOSITION (38), that is, the two younger daughters, Li and Tui. But whereas there the older of the two daughters is above, and what results is essentially only an opposition of tendencies, here the younger daughter is above. The influences are in actual conflict, and the forces combat each other like fire and water (lakes), each trying to destroy the other. Hence the idea of revolution.

THE JUDGEMENT
REVOLUTION. On your own day.
You are believed.
Supreme success.
Furthering through perseverance.
Remorse disappears.

Political revolutions are extremely grave matters. They should be undertaken only under stress of direst necessity, when there is no other way out. Not everyone is called to this task, but only the man who has the confidence of the people, and even he only when the time is ripe. He must then proceed in the right way, so that he pleads the people and, by enlightening them, prevents excesses. Furthermore, he must be quite free of selfish aims and must really relieve the need of the people. Only then does he have nothing to regret. Times change, and with them their demands. Thus the seasons change in the course of the year. In the world cycle also there are spring and autumn in the life of peoples and nations, and these call for social transformations.

THE IMAGE
Fire in the lake: the image of REVOLUTION.
Thus the superior man
Sets the calendar in order
And makes the seasons clear.

Fire below and the lake above combat and destroy each other. So too in the course of the year a combat takes place between the forces of light and the forces of darkness, eventually in the revolution of the seasons. Man masters these changes in nature by noting their regularity and marking off the passage of time accordingly. In this way order and clarity appear in the apparently chaotic changes of the seasons, and man is able to adjust himself in advance to the demands of the different times.



The I Ching

Translated by Richard Wilhelm, Cary F. Baynes
2 B.C.; 740 pp.

\$6.00 postpaid

fr. = University Press
Pr. = New Jersey 08240
P. = EARTH CATALOG
or. =
W. =

Access Information

The publications and products listed below by page number indicate the updated access or replacement of the item referred to in the 1988 WHOLE EARTH CATALOG with the sign of the living turtle.

3 Critical Path

Buckminster Fuller, 1981; 471 pp. \$15. St. Martin's Press.

Ideas & Integrates

Buckminster Fuller, Xerox, \$25.

Nine Chairs to the Moon

Buckminster Fuller, Xerox, \$25.

No More Secondhand God

Buckminster Fuller, \$10.

Available from Buckminster Fuller Institute, 2040 Alameda Padre Serra #224, Santa Barbara, CA 93110, 805/962-0022, 800/967-MAPS, www.bfi.com



14 Engineering & New Architecture

Tony Robbins, 1986; 136 pp. \$47.50. Yale University Press.

15 Dame Cookbook

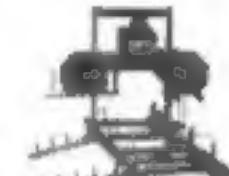
Steve Baker, 1986; 40 pp. \$12 (\$15 postpaid).

That and This, PO Box 1327, Corrales, NM 87048, 505/898-2386.



16 Environmental Design & Construction Magazine

John Suler, publisher/editor, \$32/year (6 issues); 219 Market Street, Suite 320, Sausalito, CA 94112, 800/335-2624, 415/337-2624. www.sdlmag.com.



17 Personal Seawall LT5

\$4.75, Wood-Mizer, 8100 West 10th Street, Indianapolis, IN 46214, 800/553-0182, 317/771-1542.

Auditor Guides

\$12.00-\$20. MacMasters, Around 23 Auditor Guide titles are available.

18 Voltage Technology Handbook

3rd edition, 1988; 402 pp. \$10.00. Volunteers in Technical Assistance, 1915 North Lynn Street, Arlington, VA 22209, 703/276-1800, www.vita.org.

19 The Miller Tip!

Peggye Leinen and Chevra Leinen, 1977; 340 pp. \$19.95. University of Oklahoma Press.

Tipps

\$1.99-\$12.99. Goodwill-Care Company, 8320 Salvado Avenue, Sacramento, CA 95826, 800/778-4477, 916/381-9076.

Aladdin Karaoke Lamp

\$29-\$30. Aladdin Industries, Inc., PO Box 100255, Rockville, MD 20852, 800/556-1720.

20 Man's Role in Changing the Face of the Earth

William L. Thomas, 2nd edition, 1971; 1192 pp. \$54. University of Chicago Press.

The Mushroom Hunter's Field Guide

Alexander H. Smith and Nancy Smith Weber, 3rd edition, 1980; 316 pp. \$24.95. University of Michigan Press.

The Now Savory Wild Mushrooms

Margaret McKern and Daniel Stuntz, 3rd edition, 1987; 240 pp. \$19.95. University of Washington Press.



21 The New Organic Grower

Ezra Coleman, 2nd edition, 1985; 340 pp. \$24.95. Chelsea Green Publishing Co., 205 Galen Briggs Building, PO Box 428, White River Junction, VT 05001, 802/295-6300, www.chelseagreen.com.

The New Starting Right with Bees

Kim Flottum and Kathy Summers, 21st edition, 1987; 138 pp. \$7.99. Bee Culture Magazine

Kim Flottum, editor, \$7/year (12 issues).

The ABC & XYZ of Bee Culture

Roger Morse, 40th edition, 1984; 516 pp. \$30. A.I. Root Company, 823 West Liberty Street, Medina, OH 44256, 800/258-7668, 330/725-8877, www.airoot.com.

13 BuckyWorks

J. Baldwin, 1986; 243 pp. \$19.95. John Wiley & Sons.

62
info

Orbit: NASA Astronauts Photograph the Earth
Jay Apt,
Michael Heftner,
and Justin Wilkinson.
1986; 220 pp. \$31.95.
National Geographic Society.

7 Sensitive Chaos

Theodor Schwenk, 2nd edition, 1986; 231 pp. \$29.95.

Rudolf Steiner Press, c/o

Anthroposophic Press, 3390 Fluite Rd., Hudson, NY 12534, 914/851-2054, www.anthropos.org.

8 A Year From Monday

John Cage, 1987; 178 pp. \$17.95. Wesleyan University Press.

Systems Research and Behavioral Science: The Official Journal of the International Federation for Systems Research and General Systems Yearbook

M.C. Jackson, editor.

\$125/year (8 issues).

John Wiley & Sons, Journal Subscription Department, 1 Oldlands Way, Bognor Regis, West Sussex, PO19 1PY, UK.

144 (124) 643-002, www.wiley.com. The journal is published as the journal's final issue of the year.

9 Notes on the Synthesis of Form

Christopher Alexander, 1964; 216 pp. \$15.50. Harvard University Press.

On Growth and Form

D'Arcy Thompson, 1961; 364 pp. \$13.95. Cambridge University Press.

11 Psychological Reflections

Carl Jung, 1973; 410 pp. \$17.95. Princeton University Press.

The Human Use of Human Beings

Herbert A. Wiener, 1954; 198 pp. \$11.95. Da Capo Press, 223 Spring Street, New York, NY 10013, 212/420-8000.

12 The Ghost In the Machine

Arthur Koestler, 1970; 370 pp. \$11.95. Penguin Arkana.

The Futurist

Edward Cornish, editor, \$36/year (10 issues).

7910 Woodward Avenue, Suite 450, Bethesda, MD 20814, 800/588-8274, 301/656-8274, www.wfut.org.

BuckyWorks

John Baldwin, 1986; 243 pp. \$19.95.

John Wiley & Sons.

22 The New Way Things Work

David Macaulay, 2nd edition, 1988; 400 pp. \$16. Houghton Mifflin.

Invention by Design

Henry Petroski, 1988; 342 pp. \$12.95. Harvard University Press.

23 The Measure of Man & Woman: Human Factors in Design

Henry Dreyfuss Associates, 1960; 83 pp. \$60. Whitney Library of Design, 1180 Oak Street, Lakewood, NJ 07641, 800/773-8477, 305/365-4511.

Thomas Register of American Manufacturers

34 volumes published annually. \$165-\$210. Thomas Publishing, 5 Pennsylvania Plaza, New York, NY 10036, 800/999-8622, 212/967-7277, www.thomasregister.com.

24 New Scientist

Alun Anderson, editor, \$140/year (52 issues), PO Box 7540, Highland Ranch, CO 80163, 800/522-3242, 344/344-4755/344-4756, www.newscientist.com.

Scientific American

John Rennie, editor in chief, \$34.95/year (12 issues). 415 Madison Avenue, New York, NY 10017-1111, 800/333-1199, 212/754-0560, www.sciam.com.

25 I.D.: The International Design Magazine

Chris Pashman, editor in chief, \$16/year (8 issues), 440 Park Avenue South, 14th Floor, New York, NY 10016, 800/754-3778, 212/447-1800, www.idonline.com.

National Technical Information Service Catalog of Products

NTIS, U.S. Department of Commerce, Technology Administration, NTIS, Springfield, VA 22161, 800/555-6847, 703/650-0000, www.ntis.gov.

Metropolis Magazine

Susan S. Elmquist, editor in chief, \$25/year (12 issues), 61 West 23rd Street, New York, NY 10010, 800/344-0046, 81/734-4151, www.metropoli.org.

26 The Shorter Science and Civilization in China, Vol. V, Part 2

Janet Beinart and Colin A. Ronan, 1994; 304 pp. \$30.00.

Cambridge University Press

Other volumes of both the original and the shorter Science and Civilization in China are also available.

27 Atlas of Oblique Maps: A Collection of Landform Portrayals of Selected Areas of the World

Tim Rice Agnew and James S. Dethmer, 1986; 137 pp. \$4 (S7.00 postpaid). United States Geological Survey Information Services, Box 22268, Denver Federal Center, Denver, CO 80225, 800/HELP-MAP, 303/202-4703, www.usgs.gov.

28 Cats' Paws and Catapults: Mechanical Worlds of Nature and People

Steven Vogel, 1988; 382 pp. \$27.00. W.H. Norton.

Moving The Earth

Heribert L. Nichols, Jr. & David A. Day, 14th edition, 1990; 1400 pp. \$95.00. McGraw-Hill.

Blasters' Handbook

17th edition, 1986; 577 pp. \$112.50. International Society of Explosives Engineers, 2910 Aurora Road, Cleveland, OH 44116, 440/349-4034, www.isee.org.

30 Moving The Earth

Heribert L. Nichols, Jr. & David A. Day, 14th edition, 1990; 1400 pp. \$95.00. McGraw-Hill.

31 Home Power Magazine

Richard Perez, editor, \$27.50/year (16 issues), PO Box 307, Ashland, OR 97520, 800/707-5585, 503/475-0630, www.homepower.com.

32 Life in Moving Fluids: The Physical Biology of Flow

Stefan Voss, 2nd edition, 1993. \$10.00. Focal Press, 225 Wixwood Avenue, Woburn, MA 01888, 800/955-0955, 781/974-2600, www.focalpress.com.

33 Jensen Tool Catalog

7815 S. 48th Street, Phoenix, AZ 85044-5309, 300/262-1194, 602/959-5231, www.jensentools.com.

34 Moving The Earth

Heribert L. Nichols, Jr. & David A. Day, 14th edition, 1990; 1400 pp. \$95.00. McGraw-Hill.

35 Books in Print

9 volumes, 1993; \$100. CD-ROM version monthly, \$1.195, quarterly, \$7.95, semi-annually, \$5.95. R.R. Bowker, 121 Charlton Street, New Providence, NJ 07974, 800/259-5372, 908/464-5800, www.bowker.com.

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